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RAINFALL-RUNOFF TABLES FOR SELECTED RUNOFF CURVE NUMBERS

The "Hydrology Guide" (NEH-4, Supplement A) presents Figure 3.10-1 for estimating direct runoff from rainfall for selected runoff curve numbers. Many engineers find it more convenient to work with the attached tables prepared under the direction of F. P. Erichsen, Hydrologist, E&WP Unit, Milwaukee, Wisconsin. The original tables, which have been so popular, have been enlarged to show runoff amounts to rainfall quantities up to 40 inches for runoff curve numbers 55 to 98, inclusive.

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# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1								0.00	0.00	0.01
2	0.02	0.02	0.04	0.05	0.07	0.08	0.10	0.12	0.15	0.17
3	0.19	0.22	0.25	0.28	0.31	0.35	0.38	0.42	0.45	0.49
4	0.53	0.57	0.61	0.65	0.70	0.74	0.79	0.83	0.88	0.93
5	0.98	1.03	1.08	1.13	1.19	1.24	1.29	1.35	1.40	1.46
6	1.52	1.58	1.63	1.69	1.75	1.81	1.87	1.94	2.00	2.06
7	2.12	2.19	2.25	2.32	2.38	2.45	2.51	2.58	2.65	2.72
8	2.78	2.85	2.92	2.99	3.06	3.13	3.20	3.27	3.34	3.42
9	3.49	3.56	3.63	3.71	3.78	3.85	3.93	4.00	4.08	4.15
10	4.23	4.30	4.38	4.46	4.53	4.61	4.69	4.76	4.84	4.92
11	5.00	5.08	5.15	5.23	5.31	5.39	5.47	5.55	5.63	5.71
12	5.79	5.87	5.95	6.03	6.12	6.20	6.28	6.36	6.44	6.53
13	6.61	6.69	6.77	6.86	6.94	7.02	7.11	7.19	7.27	7.36
14	7.44	7.53	7.61	7.69	7.78	7.86	7.95	8.03	8.12	8.20
15	8.29	8.38	8.46	8.55	8.63	8.72	8.81	8.89	8.98	9.07
16	9.15	9.24	9.33	9.41	9.50	9.59	9.68	9.76	9.85	9.94
17	10.03	10.11	10.20	10.29	10.38	10.47	10.56	10.64	10.73	10.82
18	10.91	11.00	11.09	11.18	11.27	11.36	11.45	11.53	11.62	11.71
19	11.80	11.89	11.98	12.07	12.16	12.25	12.34	12.43	12.52	12.61
20	12.70	12.80	12.89	12.98	13.07	13.16	13.25	13.34	13.43	13.52

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	13.61	13.70	13.80	13.89	13.98	14.07	14.16	14.25	14.34	14.44
22	14.53	14.62	14.71	14.80	14.90	14.99	15.08	15.17	15.26	15.36
23	15.45	15.54	15.63	15.73	15.82	15.91	16.00	16.10	16.19	16.28
24	16.37	16.47	16.56	16.65	16.75	16.84	16.93	17.03	17.12	17.21
25	17.31	17.40	17.49	17.59	17.68	17.77	17.87	17.96	18.05	18.15
26	18.24	18.33	18.43	18.52	18.62	18.71	18.80	18.90	18.99	19.08
27	19.18	19.27	19.37	19.46	19.56	19.65	19.74	19.84	19.93	20.03
28	20.12	20.22	20.31	20.40	20.50	20.59	20.69	20.78	20.88	20.97
29	21.07	21.16	21.26	21.35	21.45	21.54	21.64	21.73	21.83	21.92
30	22.01	22.11	22.21	22.30	22.40	22.49	22.59	22.68	22.78	22.87
31	22.97	23.06	23.16	23.25	23.35	23.44	23.54	23.63	23.73	23.82
32	23.92	24.02	24.11	24.21	24.30	24.40	24.49	24.59	24.68	24.78
33	24.88	24.97	25.07	25.16	25.26	25.35	25.45	25.55	25.64	25.74
34	25.83	25.93	26.03	26.12	26.22	26.31	26.41	26.51	26.60	26.70
35	26.79	26.89	26.99	27.08	27.18	27.28	27.37	27.47	27.56	27.66
36	27.76	27.85	27.95	28.05	28.14	28.24	28.33	28.43	28.53	28.62
37	28.72	28.82	28.91	29.01	29.11	29.20	29.30	29.40	29.49	29.59
38	29.69	29.78	29.88	29.98	30.07	30.17	30.27	30.36	30.46	30.56
39	30.65	30.75	30.85	30.94	31.04	31.14	31.23	31.33	31.43	31.52
40	31.62	31.72	31.82	31.91	32.01	32.11	32.20	32.30	32.40	32.49

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1							0.00	0.00	0.01	0.01
2	0.02	0.03	0.05	0.06	0.08	0.10	0.12	0.14	0.17	0.19
3	0.22	0.25	0.28	0.31	0.34	0.38	0.42	0.45	0.49	0.53
4	0.57	0.62	0.66	0.70	0.75	0.79	0.84	0.89	0.94	0.99
5	1.04	1.09	1.15	1.20	1.25	1.31	1.36	1.42	1.48	1.54
6	1.60	1.66	1.72	1.78	1.84	1.90	1.96	2.02	2.09	2.15
7	2.22	2.28	2.35	2.41	2.48	2.55	2.62	2.68	2.75	2.82
8	2.89	2.96	3.03	3.10	3.17	3.25	3.32	3.39	3.46	3.54
9	3.61	3.68	3.76	3.83	3.91	3.98	4.06	4.13	4.21	4.28
10	4.36	4.44	4.51	4.59	4.67	4.75	4.83	4.90	4.98	5.06
11	5.14	5.22	5.30	5.38	5.46	5.54	5.62	5.70	5.78	5.86
12	5.95	6.03	6.11	6.19	6.27	6.36	6.44	6.52	6.60	6.69
13	6.77	6.85	6.94	7.02	7.11	7.19	7.27	7.36	7.44	7.53
14	7.61	7.70	7.78	7.87	7.95	8.04	8.13	8.21	8.30	8.38
15	8.47	8.56	8.64	8.73	8.82	8.90	8.99	9.08	9.16	9.25
16	9.34	9.43	9.52	9.60	9.69	9.78	9.87	9.96	10.04	10.13
17	10.22	10.31	10.40	10.49	10.58	10.67	10.75	10.84	10.93	11.02
18	11.11	11.20	11.29	11.38	11.47	11.56	11.65	11.74	11.83	11.92
19	12.01	12.10	12.19	12.28	12.37	12.46	12.55	12.65	12.74	12.83
20	12.92	13.01	13.10	13.19	13.28	13.37	13.47	13.56	13.65	13.74

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	13.83	13.92	14.02	14.11	14.20	14.29	14.38	14.48	14.57	14.66
22	14.75	14.84	14.94	15.03	15.12	15.21	15.31	15.40	15.49	15.58
23	15.68	15.77	15.86	15.96	16.05	16.14	16.24	16.33	16.42	16.51
24	16.61	16.70	16.79	16.89	16.98	17.07	17.17	17.26	17.36	17.45
25	17.54	17.64	17.73	17.82	17.92	18.01	18.11	18.20	18.29	18.39
26	18.48	18.58	18.67	18.76	18.86	18.95	19.05	19.14	19.24	19.33
27	19.42	19.52	19.61	19.71	19.80	19.90	19.99	20.09	20.18	20.28
28	20.37	20.46	20.56	20.65	20.75	20.84	20.94	21.03	21.13	21.22
29	21.32	21.41	21.51	21.60	21.70	21.79	21.89	21.98	22.08	22.18
30	22.27	22.37	22.46	22.56	22.65	22.75	22.84	22.94	23.03	23.13
31	23.22	23.32	23.42	23.51	23.61	23.70	23.80	23.89	23.99	24.09
32	24.18	24.28	24.37	24.47	24.56	24.66	24.76	24.85	24.95	25.04
33	25.14	25.24	25.33	25.43	25.52	25.62	25.72	25.81	25.91	26.01
34	26.10	26.20	26.29	26.39	26.49	26.58	26.68	26.78	26.87	26.97
35	27.06	27.16	27.26	27.35	27.45	27.55	27.64	27.74	27.84	27.93
36	28.03	28.13	28.22	28.32	28.42	28.51	28.61	28.71	28.80	28.90
37	29.00	29.09	29.19	29.29	29.38	29.48	29.58	29.67	29.77	29.87
38	29.96	30.06	30.16	30.25	30.35	30.45	30.54	30.64	30.74	30.84
39	30.93	31.03	31.13	31.22	31.32	31.42	31.51	31.61	31.71	31.81
40	31.90	32.00	32.10	32.19	32.29	32.39	32.49	32.58	32.68	32.78

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1							0.00	0.00	0.01	0.02
2	0.03	0.04	0.06	0.08	0.09	0.12	0.14	0.16	0.19	0.22
3	0.25	0.28	0.31	0.34	0.38	0.42	0.45	0.49	0.53	0.58
4	0.62	0.66	0.71	0.75	0.80	0.85	0.90	0.95	1.00	1.05
5	1.11	1.16	1.21	1.27	1.33	1.38	1.44	1.50	1.56	1.62
6	1.68	1.74	1.80	1.86	1.93	1.99	2.05	2.12	2.18	2.25
7	2.31	2.38	2.45	2.52	2.58	2.65	2.72	2.79	2.86	2.93
8	3.00	3.07	3.15	3.22	3.29	3.36	3.44	3.51	3.59	3.66
9	3.73	3.81	3.88	3.96	4.04	4.11	4.19	4.27	4.34	4.42
10	4.50	4.58	4.65	4.73	4.81	4.89	4.97	5.05	5.13	5.21
11	5.29	5.37	5.45	5.53	5.61	5.69	5.78	5.86	5.94	6.02
12	6.10	6.19	6.27	6.35	6.44	6.52	6.60	6.69	6.77	6.85
13	6.94	7.02	7.11	7.19	7.28	7.36	7.45	7.53	7.62	7.70
14	7.79	7.88	7.96	8.05	8.13	8.22	8.31	8.39	8.48	8.57
15	8.66	8.74	8.83	8.92	9.00	9.09	9.18	9.27	9.36	9.44
16	9.53	9.62	9.71	9.80	9.89	9.98	10.06	10.15	10.24	10.33
17	10.42	10.51	10.60	10.69	10.78	10.87	10.96	11.05	11.14	11.23
18	11.32	11.41	11.50	11.59	11.68	11.77	11.86	11.95	12.04	12.13
19	12.22	12.31	12.41	12.50	12.59	12.68	12.77	12.86	12.95	13.04
20	13.14	13.23	13.32	13.41	13.50	13.59	13.69	13.78	13.87	13.96

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	14.06	14.15	14.24	14.33	14.42	14.52	14.61	14.70	14.79	14.89
22	14.98	15.07	15.17	15.26	15.35	15.44	15.54	15.63	15.72	15.82
23	15.91	16.00	16.10	16.19	16.28	16.38	16.47	16.56	16.66	16.75
24	16.85	16.94	17.03	17.13	17.22	17.31	17.41	17.50	17.60	17.69
25	17.78	17.88	17.97	18.07	18.16	18.25	18.35	18.44	18.54	18.63
26	18.73	18.82	18.92	19.01	19.10	19.20	19.29	19.39	19.48	19.58
27	19.67	19.77	19.86	19.96	20.05	20.15	20.24	20.34	20.43	20.53
28	20.62	20.72	20.81	20.91	21.00	21.10	21.19	21.29	21.38	21.48
29	21.57	21.67	21.77	21.86	21.96	22.05	22.15	22.24	22.34	22.43
30	22.53	22.63	22.72	22.82	22.91	23.01	23.10	23.20	23.30	23.39
31	23.49	23.58	23.68	23.77	23.87	23.97	24.06	24.16	24.25	24.35
32	24.45	24.54	24.64	24.74	24.83	24.93	25.02	25.12	25.22	25.31
33	25.41	25.50	25.60	25.70	25.79	25.89	25.99	26.08	26.18	26.28
34	26.37	26.47	26.57	26.66	26.76	26.85	26.95	27.05	27.14	27.24
35	27.34	27.43	27.53	27.63	27.72	27.82	27.92	28.01	28.11	28.21
36	28.30	28.40	28.50	28.59	28.69	28.79	28.89	28.98	29.08	29.18
37	29.27	29.37	29.47	29.56	29.66	29.76	29.85	29.95	30.05	30.15
38	30.24	30.34	30.44	30.53	30.63	30.73	30.83	30.92	31.02	31.12
39	31.21	31.31	31.41	31.51	31.60	31.70	31.80	31.90	31.99	32.09
40	32.19	32.28	32.38	32.48	32.58	32.67	32.77	32.87	32.97	33.06

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1						0.00	0.00	0.01	0.02	0.03
2	0.04	0.05	0.07	0.09	0.11	0.13	0.16	0.18	0.21	0.24
3	0.27	0.31	0.34	0.38	0.41	0.45	0.49	0.53	0.58	0.62
4	0.67	0.71	0.76	0.81	0.86	0.91	0.96	1.01	1.06	1.11
5	1.17	1.22	1.28	1.34	1.40	1.45	1.51	1.57	1.63	1.70
6	1.76	1.82	1.88	1.95	2.01	2.08	2.14	2.21	2.27	2.34
7	2.41	2.48	2.55	2.62	2.69	2.76	2.83	2.90	2.97	3.04
8	3.11	3.19	3.26	3.33	3.41	3.48	3.55	3.63	3.70	3.78
9	3.86	3.93	4.01	4.09	4.16	4.24	4.32	4.40	4.47	4.55
10	4.63	4.71	4.79	4.87	4.95	5.03	5.11	5.19	5.27	5.35
11	5.43	5.52	5.60	5.68	5.76	5.84	5.93	6.01	6.09	6.17
12	6.26	6.34	6.43	6.51	6.59	6.68	6.76	6.85	6.93	7.02
13	7.10	7.19	7.27	7.36	7.44	7.53	7.62	7.70	7.79	7.87
14	7.96	8.05	8.13	8.22	8.31	8.40	8.48	8.57	8.66	8.75
15	8.83	8.92	9.01	9.10	9.19	9.27	9.36	9.45	9.54	9.63
16	9.72	9.81	9.90	9.98	10.07	10.16	10.25	10.34	10.43	10.52
17	10.61	10.70	10.79	10.88	10.97	11.06	11.15	11.24	11.33	11.42
18	11.52	11.61	11.70	11.79	11.88	11.97	12.06	12.15	12.24	12.33
19	12.43	12.52	12.61	12.70	12.79	12.88	12.98	13.07	13.16	13.25
20	13.34	13.44	13.53	13.62	13.71	13.81	13.90	13.99	14.08	14.18

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	14.27	14.36	14.45	14.55	14.64	14.73	14.83	14.92	15.01	15.10
22	15.20	15.29	15.38	15.48	15.57	15.66	15.76	15.85	15.95	16.04
23	16.13	16.23	16.32	16.41	16.51	16.60	16.70	16.79	16.88	16.98
24	17.07	17.17	17.26	17.35	17.45	17.54	17.64	17.73	17.83	17.92
25	18.01	18.11	18.20	18.30	18.39	18.49	18.58	18.68	18.77	18.87
26	18.96	19.06	19.15	19.25	19.34	19.44	19.53	19.63	19.72	19.82
27	19.91	20.01	20.10	20.20	20.29	20.39	20.48	20.58	20.67	20.77
28	20.86	20.96	21.05	21.15	21.25	21.34	21.44	21.53	21.63	21.72
29	21.82	21.91	22.01	22.11	22.20	22.30	22.39	22.49	22.58	22.68
30	22.78	22.87	22.97	23.06	23.16	23.26	23.35	23.45	23.54	23.64
31	23.74	23.83	23.93	24.03	24.12	24.22	24.31	24.41	24.51	24.60
32	24.70	24.80	24.89	24.99	25.08	25.18	25.28	25.37	25.47	25.57
33	25.66	25.76	25.86	25.95	26.05	26.15	26.24	26.34	26.44	26.53
34	26.63	26.73	26.82	26.92	27.02	27.11	27.21	27.31	27.40	27.50
35	27.60	27.69	27.79	27.89	27.98	28.08	28.18	28.28	28.37	28.47
36	28.57	28.66	28.76	28.86	28.95	29.05	29.15	29.25	29.34	29.44
37	29.54	29.63	29.73	29.83	29.93	30.02	30.12	30.22	30.31	30.41
38	30.51	30.61	30.70	30.80	30.90	31.00	31.09	31.19	31.29	31.38
39	31.48	31.58	31.68	31.77	31.87	31.97	32.07	32.16	32.26	32.36
40	32.46	32.55	32.65	32.75	32.85	32.94	33.04	33.14	33.24	33.33

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1					0.00	0.00	0.01	0.01	0.02	0.03
2	0.05	0.07	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.27
3	0.30	0.34	0.37	0.41	0.45	0.49	0.53	0.58	0.62	0.67
4	0.71	0.76	0.81	0.86	0.91	0.96	1.01	1.07	1.12	1.18
5	1.23	1.29	1.35	1.41	1.47	1.53	1.59	1.65	1.71	1.77
6	1.84	1.90	1.97	2.03	2.10	2.17	2.23	2.30	2.37	2.44
7	2.51	2.58	2.65	2.72	2.79	2.86	2.93	3.00	3.08	3.15
8	3.22	3.30	3.37	3.45	3.52	3.60	3.67	3.75	3.82	3.90
9	3.98	4.05	4.13	4.21	4.29	4.37	4.45	4.53	4.60	4.68
10	4.76	4.84	4.92	5.01	5.09	5.17	5.25	5.33	5.41	5.49
11	5.58	5.66	5.74	5.82	5.91	5.99	6.07	6.16	6.24	6.33
12	6.41	6.50	6.58	6.66	6.75	6.83	6.92	7.01	7.09	7.18
13	7.26	7.35	7.43	7.52	7.61	7.69	7.78	7.87	7.95	8.04
14	8.13	8.22	8.30	8.39	8.48	8.57	8.66	8.74	8.83	8.92
15	9.01	9.10	9.19	9.28	9.36	9.45	9.54	9.63	9.72	9.81
16	9.90	9.99	10.08	10.17	10.26	10.35	10.44	10.53	10.62	10.71
17	10.80	10.89	10.98	11.07	11.16	11.25	11.35	11.44	11.53	11.62
18	11.71	11.80	11.89	11.98	12.08	12.17	12.26	12.35	12.44	12.53
19	12.63	12.72	12.81	12.90	13.00	13.09	13.18	13.27	13.36	13.46
20	13.55	13.64	13.74	13.83	13.92	14.01	14.11	14.20	14.29	14.39

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	14.48	14.57	14.67	14.76	14.85	14.95	15.04	15.13	15.23	15.32
22	15.41	15.51	15.60	15.69	15.79	15.88	15.98	16.07	16.16	16.26
23	16.35	16.45	16.54	16.63	16.73	16.82	16.92	17.01	17.11	17.20
24	17.29	17.39	17.48	17.58	17.67	17.77	17.86	17.96	18.05	18.15
25	18.24	18.34	18.43	18.53	18.62	18.72	18.81	18.91	19.00	19.10
26	19.19	19.29	19.38	19.48	19.57	19.67	19.76	19.86	19.95	20.05
27	20.14	20.24	20.33	20.43	20.53	20.62	20.72	20.81	20.91	21.00
28	21.10	21.19	21.29	21.39	21.48	21.58	21.67	21.77	21.87	21.96
29	22.06	22.15	22.25	22.35	22.44	22.54	22.63	22.73	22.83	22.92
30	23.02	23.11	23.21	23.31	23.40	23.50	23.60	23.69	23.79	23.88
31	23.98	24.08	24.17	24.27	24.37	24.46	24.56	24.66	24.75	24.85
32	24.95	25.04	25.14	25.24	25.33	25.43	25.53	25.62	25.72	25.82
33	25.91	26.01	26.11	26.20	26.30	26.40	26.49	26.59	26.69	26.78
34	26.88	26.98	27.07	27.17	27.27	27.37	27.46	27.56	27.66	27.75
35	27.85	27.95	28.05	28.14	28.24	28.34	28.43	28.53	28.63	28.73
36	28.82	28.92	29.02	29.11	29.21	29.31	29.41	29.50	29.60	29.70
37	29.79	29.89	29.99	30.09	30.18	30.28	30.38	30.48	30.57	30.67
38	30.77	30.87	30.96	31.06	31.16	31.26	31.35	31.45	31.55	31.65
39	31.74	31.84	31.94	32.04	32.13	32.23	32.33	32.43	32.52	32.62
40	32.72	32.82	32.92	33.01	33.11	33.21	33.31	33.40	33.50	33.60

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1					0.00	0.00	0.01	0.02	0.03	0.04
2	0.06	0.08	0.10	0.12	0.15	0.17	0.20	0.23	0.26	0.30
3	0.33	0.37	0.41	0.45	0.49	0.53	0.57	0.62	0.67	0.71
4	0.76	0.81	0.86	0.91	0.97	1.02	1.07	1.13	1.19	1.24
5	1.30	1.36	1.42	1.48	1.54	1.60	1.66	1.73	1.79	1.86
6	1.92	1.99	2.05	2.12	2.19	2.25	2.32	2.39	2.46	2.53
7	2.60	2.67	2.74	2.82	2.89	2.96	3.04	3.11	3.18	3.26
8	3.33	3.41	3.48	3.56	3.63	3.71	3.79	3.87	3.94	4.02
9	4.10	4.18	4.26	4.34	4.42	4.49	4.57	4.65	4.74	4.82
10	4.90	4.98	5.06	5.14	5.22	5.31	5.39	5.47	5.55	5.64
11	5.72	5.80	5.89	5.97	6.05	6.14	6.22	6.31	6.39	6.48
12	6.56	6.65	6.73	6.82	6.90	6.99	7.08	7.16	7.25	7.34
13	7.42	7.51	7.60	7.68	7.77	7.86	7.95	8.03	8.12	8.21
14	8.30	8.38	8.47	8.56	8.65	8.74	8.83	8.92	9.01	9.09
15	9.18	9.27	9.36	9.45	9.54	9.63	9.72	9.81	9.90	9.99
16	10.08	10.17	10.26	10.35	10.44	10.53	10.62	10.71	10.81	10.90
17	10.99	11.08	11.17	11.26	11.35	11.44	11.54	11.63	11.72	11.81
18	11.90	11.99	12.09	12.18	12.27	12.36	12.45	12.55	12.64	12.73
19	12.82	12.92	13.01	13.10	13.19	13.29	13.38	13.47	13.57	13.66
20	13.75	13.85	13.94	14.03	14.12	14.22	14.31	14.40	14.50	14.59

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	14.69	14.78	14.87	14.97	15.06	15.15	15.25	15.34	15.44	15.53
22	15.62	15.72	15.81	15.91	16.00	16.09	16.19	16.28	16.38	16.47
23	16.57	16.66	16.76	16.85	16.94	17.04	17.13	17.23	17.32	17.42
24	17.51	17.61	17.70	17.80	17.89	17.99	18.08	18.18	18.27	18.37
25	18.46	18.56	18.65	18.75	18.84	18.94	19.03	19.13	19.22	19.32
26	19.42	19.51	19.61	19.70	19.80	19.89	19.99	20.08	20.18	20.28
27	20.37	20.47	20.56	20.66	20.76	20.85	20.95	21.04	21.14	21.23
28	21.33	21.43	21.52	21.62	21.71	21.81	21.91	22.00	22.10	22.20
29	22.29	22.39	22.48	22.58	22.68	22.77	22.87	22.97	23.06	23.16
30	23.26	23.35	23.45	23.54	23.64	23.74	23.83	23.93	24.03	24.12
31	24.22	24.32	24.41	24.51	24.61	24.70	24.80	24.90	24.99	25.09
32	25.19	25.28	25.38	25.48	25.57	25.67	25.77	25.87	25.96	26.06
33	26.16	26.25	26.35	26.45	26.54	26.64	26.74	26.84	26.93	27.03
34	27.13	27.22	27.32	27.42	27.52	27.61	27.71	27.81	27.90	28.00
35	28.10	28.20	28.29	28.39	28.49	28.59	28.68	28.78	28.88	28.97
36	29.07	29.17	29.27	29.36	29.46	29.56	29.66	29.75	29.85	29.95
37	30.05	30.14	30.24	30.34	30.44	30.53	30.63	30.73	30.83	30.92
38	31.02	31.12	31.22	31.32	31.41	31.51	31.61	31.71	31.80	31.90
39	32.00	32.10	32.19	32.29	32.39	32.49	32.59	32.68	32.78	32.88
40	32.98	33.08	33.17	33.27	33.37	33.47	33.56	33.66	33.76	33.86

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1				0.00	0.00	0.01	0.02	0.03	0.04	0.06
2	0.07	0.09	0.12	0.14	0.17	0.20	0.23	0.26	0.29	0.33
3	0.37	0.40	0.44	0.49	0.53	0.57	0.62	0.67	0.71	0.76
4	0.81	0.86	0.92	0.97	1.02	1.08	1.14	1.19	1.25	1.31
5	1.37	1.43	1.49	1.55	1.62	1.68	1.74	1.81	1.87	1.94
6	2.01	2.07	2.14	2.21	2.28	2.35	2.42	2.49	2.56	2.63
7	2.70	2.78	2.85	2.92	3.00	3.07	3.14	3.22	3.29	3.37
8	3.45	3.52	3.60	3.68	3.75	3.83	3.91	3.99	4.07	4.15
9	4.23	4.31	4.38	4.47	4.55	4.63	4.71	4.79	4.87	4.95
10	5.03	5.12	5.20	5.28	5.36	5.45	5.53	5.61	5.70	5.78
11	5.87	5.95	6.04	6.12	6.20	6.29	6.38	6.46	6.55	6.63
12	6.72	6.80	6.89	6.98	7.06	7.15	7.24	7.32	7.41	7.50
13	7.59	7.67	7.76	7.85	7.94	8.03	8.11	8.20	8.29	8.38
14	8.47	8.56	8.65	8.74	8.82	8.91	9.00	9.09	9.18	9.27
15	9.36	9.45	9.54	9.63	9.72	9.81	9.90	9.99	10.08	10.18
16	10.27	10.36	10.45	10.54	10.63	10.72	10.81	10.90	11.00	11.09
17	11.18	11.27	11.36	11.45	11.55	11.64	11.73	11.82	11.91	12.01
18	12.10	12.19	12.28	12.38	12.47	12.56	12.65	12.75	12.84	12.93
19	13.03	13.12	13.21	13.30	13.40	13.49	13.58	13.68	13.77	13.86
20	13.96	14.05	14.15	14.24	14.33	14.43	14.52	14.61	14.71	14.80

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	14.90	14.99	15.08	15.18	15.27	15.37	15.46	15.55	15.65	15.74
22	15.84	15.93	16.03	16.12	16.22	16.31	16.41	16.50	16.59	16.69
23	16.78	16.88	16.97	17.07	17.16	17.26	17.35	17.45	17.54	17.64
24	17.73	17.83	17.92	18.02	18.12	18.21	18.31	18.40	18.50	18.59
25	18.69	18.78	18.88	18.97	19.07	19.17	19.26	19.36	19.45	19.55
26	19.64	19.74	19.84	19.93	20.03	20.12	20.22	20.32	20.41	20.51
27	20.60	20.70	20.80	20.89	20.99	21.08	21.18	21.28	21.37	21.47
28	21.57	21.66	21.76	21.85	21.95	22.05	22.14	22.24	22.34	22.43
29	22.53	22.63	22.72	22.82	22.92	23.01	23.11	23.20	23.30	23.40
30	23.49	23.59	23.69	23.79	23.88	23.98	24.08	24.17	24.27	24.37
31	24.46	24.56	24.66	24.75	24.85	24.95	25.04	25.14	25.24	25.34
32	25.43	25.53	25.63	25.72	25.82	25.92	26.01	26.11	26.21	26.31
33	26.40	26.50	26.60	26.69	26.79	26.89	26.99	27.08	27.18	27.28
34	27.38	27.47	27.57	27.67	27.77	27.86	27.96	28.06	28.16	28.25
35	28.35	28.45	28.54	28.64	28.74	28.84	28.93	29.03	29.13	29.23
36	29.33	29.42	29.52	29.62	29.72	29.81	29.91	30.01	30.11	30.20
37	30.30	30.40	30.50	30.59	30.69	30.79	30.89	30.99	31.08	31.18
38	31.28	31.38	31.47	31.57	31.67	31.77	31.87	31.96	32.06	32.16
39	32.26	32.36	32.45	32.55	32.65	32.75	32.85	32.94	33.04	33.14
40	33.24	33.34	33.43	33.53	33.63	33.73	33.83	33.92	34.02	34.12

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1				0.00	0.00	0.01	0.02	0.03	0.05	0.07
2	0.09	0.11	0.13	0.16	0.19	0.22	0.25	0.29	0.32	0.36
3	0.40	0.44	0.48	0.52	0.57	0.62	0.66	0.71	0.76	0.81
4	0.86	0.92	0.97	1.03	1.08	1.14	1.20	1.26	1.32	1.38
5	1.44	1.50	1.56	1.63	1.69	1.76	1.82	1.89	1.95	2.02
6	2.09	2.16	2.23	2.30	2.37	2.44	2.51	2.58	2.65	2.73
7	2.80	2.87	2.95	3.02	3.10	3.17	3.25	3.33	3.40	3.48
8	3.56	3.63	3.71	3.79	3.87	3.95	4.03	4.11	4.19	4.27
9	4.35	4.43	4.51	4.59	4.67	4.75	4.83	4.92	5.00	5.08
10	5.17	5.25	5.33	5.42	5.50	5.58	5.67	5.75	5.84	5.92
11	6.01	6.09	6.18	6.26	6.35	6.43	6.52	6.61	6.69	6.78
12	6.87	6.95	7.04	7.13	7.22	7.30	7.39	7.48	7.57	7.65
13	7.74	7.83	7.92	8.01	8.10	8.19	8.27	8.36	8.45	8.54
14	8.63	8.72	8.81	8.90	8.99	9.08	9.17	9.26	9.35	9.44
15	9.53	9.62	9.71	9.80	9.89	9.99	10.08	10.17	10.26	10.35
16	10.44	10.53	10.62	10.72	10.81	10.90	10.99	11.08	11.18	11.27
17	11.36	11.45	11.54	11.64	11.73	11.82	11.91	12.01	12.10	12.19
18	12.28	12.38	12.47	12.56	12.66	12.75	12.84	12.94	13.03	13.12
19	13.22	13.31	13.40	13.50	13.59	13.68	13.78	13.87	13.97	14.06
20	14.15	14.25	14.34	14.43	14.53	14.62	14.72	14.81	14.91	15.00

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	15.09	15.19	15.28	15.38	15.47	15.57	15.66	15.76	15.85	15.95
22	16.04	16.14	16.23	16.33	16.42	16.52	16.61	16.71	16.80	16.90
23	16.99	17.09	17.18	17.28	17.37	17.47	17.56	17.66	17.75	17.85
24	17.94	18.04	18.14	18.23	18.33	18.42	18.52	18.61	18.71	18.80
25	18.90	19.00	19.09	19.19	19.28	19.38	19.48	19.57	19.67	19.76
26	19.86	19.96	20.05	20.15	20.24	20.34	20.44	20.53	20.63	20.73
27	20.82	20.92	21.01	21.11	21.21	21.30	21.40	21.50	21.59	21.69
28	21.79	21.88	21.98	22.08	22.17	22.27	22.37	22.46	22.56	22.66
29	22.75	22.85	22.95	23.04	23.14	23.24	23.33	23.43	23.53	23.62
30	23.72	23.82	23.91	24.01	24.11	24.21	24.30	24.40	24.50	24.59
31	24.69	24.79	24.88	24.98	25.08	25.18	25.27	25.37	25.47	25.56
32	25.66	25.76	25.86	25.95	26.05	26.15	26.25	26.34	26.44	26.54
33	26.64	26.73	26.83	26.93	27.02	27.12	27.22	27.32	27.41	27.51
34	27.61	27.71	27.80	27.90	28.00	28.10	28.20	28.29	28.39	28.49
35	28.59	28.68	28.78	28.88	28.98	29.07	29.17	29.27	29.37	29.46
36	29.56	29.66	29.76	29.86	29.95	30.05	30.15	30.25	30.35	30.44
37	30.54	30.64	30.74	30.83	30.93	31.03	31.13	31.23	31.32	31.42
38	31.52	31.62	31.72	31.81	31.91	32.01	32.11	32.21	32.30	32.40
39	32.50	32.60	32.70	32.79	32.89	32.99	33.09	33.19	33.28	33.38
40	33.48	33.58	33.68	33.78	33.87	33.97	34.07	34.17	34.27	34.36

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1			0.00	0.00	0.01	0.02	0.03	0.04	0.06	0.08
2	0.10	0.13	0.15	0.18	0.21	0.24	0.28	0.31	0.35	0.39
3	0.43	0.48	0.52	0.57	0.61	0.66	0.71	0.76	0.81	0.86
4	0.92	0.97	1.03	1.09	1.14	1.20	1.26	1.32	1.38	1.45
5	1.51	1.57	1.64	1.70	1.77	1.84	1.90	1.97	2.04	2.11
6	2.18	2.25	2.32	2.39	2.46	2.53	2.61	2.68	2.75	2.83
7	2.90	2.98	3.05	3.13	3.20	3.28	3.36	3.44	3.51	3.59
8	3.67	3.75	3.83	3.91	3.99	4.07	4.15	4.23	4.31	4.39
9	4.47	4.55	4.64	4.72	4.80	4.88	4.97	5.05	5.13	5.22
10	5.30	5.38	5.47	5.55	5.64	5.72	5.81	5.89	5.98	6.07
11	6.15	6.24	6.32	6.41	6.50	6.58	6.67	6.76	6.84	6.93
12	7.02	7.11	7.20	7.28	7.37	7.46	7.55	7.64	7.73	7.81
13	7.90	7.99	8.08	8.17	8.26	8.35	8.44	8.53	8.62	8.71
14	8.80	8.89	8.98	9.07	9.16	9.25	9.34	9.43	9.52	9.61
15	9.71	9.80	9.89	9.98	10.07	10.16	10.25	10.35	10.44	10.53
16	10.62	10.71	10.80	10.90	10.99	11.08	11.17	11.27	11.36	11.45
17	11.54	11.64	11.73	11.82	11.92	12.01	12.10	12.19	12.29	12.38
18	12.47	12.57	12.66	12.75	12.85	12.94	13.04	13.13	13.22	13.32
19	13.41	13.50	13.60	13.69	13.79	13.88	13.97	14.07	14.16	14.26
20	14.35	14.45	14.54	14.63	14.73	14.82	14.92	15.01	15.11	15.20

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	15.30	15.39	15.49	15.58	15.68	15.77	15.87	15.96	16.06	16.15
22	16.25	16.34	16.44	16.53	16.63	16.72	16.82	16.91	17.01	17.10
23	17.20	17.30	17.39	17.49	17.58	17.68	17.77	17.87	17.97	18.06
24	18.16	18.25	18.35	18.44	18.54	18.64	18.73	18.83	18.92	19.02
25	19.12	19.21	19.31	19.40	19.50	19.60	19.69	19.79	19.89	19.98
26	20.08	20.17	20.27	20.37	20.46	20.56	20.66	20.75	20.85	20.95
27	21.04	21.14	21.24	21.33	21.43	21.53	21.62	21.72	21.82	21.91
28	22.01	22.11	22.20	22.30	22.40	22.49	22.59	22.69	22.78	22.88
29	22.98	23.08	23.17	23.27	23.37	23.46	23.56	23.66	23.75	23.85
30	23.95	24.05	24.14	24.24	24.34	24.43	24.53	24.63	24.73	24.82
31	24.92	25.02	25.12	25.21	25.31	25.41	25.51	25.60	25.70	25.80
32	25.89	25.99	26.09	26.19	26.28	26.38	26.48	26.58	26.67	26.77
33	26.87	26.97	27.07	27.16	27.26	27.36	27.46	27.55	27.65	27.75
34	27.85	27.94	28.04	28.14	28.24	28.34	28.43	28.53	28.63	28.73
35	28.82	28.92	29.02	29.12	29.22	29.31	29.41	29.51	29.61	29.70
36	29.80	29.90	30.00	30.10	30.19	30.29	30.39	30.49	30.59	30.68
37	30.78	30.88	30.98	31.08	31.17	31.27	31.37	31.47	31.57	31.66
38	31.76	31.86	31.96	32.06	32.16	32.25	32.35	32.45	32.55	32.65
39	32.74	32.84	32.94	33.04	33.14	33.24	33.33	33.43	33.53	33.63
40	33.73	33.83	33.92	34.02	34.12	34.22	34.32	34.41	34.51	34.61

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1			0.00	0.01	0.01	0.02	0.04	0.05	0.07	0.09
2	0.12	0.14	0.17	0.20	0.24	0.27	0.31	0.35	0.39	0.43
3	0.47	0.51	0.56	0.61	0.66	0.71	0.76	0.81	0.86	0.92
4	0.97	1.03	1.09	1.15	1.21	1.27	1.33	1.39	1.45	1.52
5	1.58	1.65	1.71	1.78	1.85	1.92	1.98	2.05	2.12	2.19
6	2.27	2.34	2.41	2.48	2.55	2.63	2.70	2.78	2.85	2.93
7	3.00	3.08	3.16	3.23	3.31	3.39	3.47	3.55	3.62	3.70
8	3.78	3.86	3.94	4.02	4.11	4.19	4.27	4.35	4.43	4.51
9	4.60	4.68	4.76	4.85	4.93	5.01	5.10	5.18	5.27	5.35
10	5.43	5.52	5.61	5.69	5.78	5.86	5.95	6.03	6.12	6.21
11	6.29	6.38	6.47	6.56	6.64	6.73	6.82	6.91	6.99	7.08
12	7.17	7.26	7.35	7.44	7.53	7.61	7.70	7.79	7.88	7.97
13	8.06	8.15	8.24	8.33	8.42	8.51	8.60	8.69	8.78	8.87
14	8.96	9.05	9.15	9.24	9.33	9.42	9.51	9.60	9.69	9.78
15	9.88	9.97	10.06	10.15	10.24	10.34	10.43	10.52	10.61	10.70
16	10.80	10.89	10.98	11.07	11.17	11.26	11.35	11.45	11.54	11.63
17	11.73	11.82	11.91	12.01	12.10	12.19	12.29	12.38	12.47	12.57
18	12.66	12.75	12.85	12.94	13.04	13.13	13.22	13.32	13.41	13.51
19	13.60	13.69	13.79	13.88	13.98	14.07	14.17	14.26	14.36	14.45
20	14.55	14.64	14.73	14.83	14.92	15.02	15.11	15.21	15.30	15.40

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	15.49	15.59	15.69	15.78	15.88	15.97	16.07	16.16	16.26	16.35
22	16.45	16.54	16.64	16.73	16.83	16.93	17.02	17.12	17.21	17.31
23	17.40	17.50	17.60	17.69	17.79	17.88	17.98	18.08	18.17	18.27
24	18.36	18.46	18.56	18.65	18.75	18.85	18.94	19.04	19.13	19.23
25	19.33	19.42	19.52	19.62	19.71	19.81	19.91	20.00	20.10	20.20
26	20.29	20.39	20.48	20.58	20.68	20.77	20.87	20.97	21.07	21.16
27	21.26	21.36	21.45	21.55	21.65	21.74	21.84	21.94	22.03	22.13
28	22.23	22.32	22.42	22.52	22.62	22.71	22.81	22.91	23.00	23.10
29	23.20	23.30	23.39	23.49	23.59	23.69	23.78	23.88	23.98	24.07
30	24.17	24.27	24.37	24.46	24.56	24.66	24.76	24.85	24.95	25.05
31	25.15	25.24	25.34	25.44	25.54	25.63	25.73	25.83	25.93	26.02
32	26.12	26.22	26.32	26.41	26.51	26.61	26.71	26.81	26.90	27.00
33	27.10	27.20	27.29	27.39	27.49	27.59	27.69	27.78	27.88	27.98
34	28.08	28.17	28.27	28.37	28.47	28.57	28.66	28.76	28.86	28.96
35	29.06	29.15	29.25	29.35	29.45	29.55	29.64	29.74	29.84	29.94
36	30.04	30.13	30.23	30.33	30.43	30.53	30.62	30.72	30.82	30.92
37	31.02	31.12	31.21	31.31	31.41	31.51	31.61	31.70	31.80	31.90
38	32.00	32.10	32.20	32.29	32.39	32.49	32.59	32.69	32.79	32.88
39	32.98	33.08	33.18	33.28	33.38	33.47	33.57	33.67	33.77	33.87
40	33.97	34.06	34.16	34.26	34.36	34.46	34.56	34.65	34.75	34.85

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2 S)^2}{P+0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1		0.00	0.00	0.01	0.02	0.03	0.05	0.06	0.09	0.11
2	0.14	0.16	0.19	0.23	0.26	0.30	0.34	0.38	0.42	0.46
3	0.51	0.55	0.60	0.65	0.70	0.75	0.81	0.86	0.92	0.97
4	1.03	1.09	1.15	1.21	1.27	1.33	1.39	1.46	1.52	1.59
5	1.65	1.72	1.79	1.86	1.93	2.00	2.07	2.14	2.21	2.28
6	2.35	2.43	2.50	2.57	2.65	2.72	2.80	2.87	2.95	3.03
7	3.10	3.18	3.26	3.34	3.42	3.50	3.58	3.66	3.74	3.82
8	3.90	3.98	4.06	4.14	4.22	4.30	4.39	4.47	4.55	4.64
9	4.72	4.80	4.89	4.97	5.06	5.14	5.23	5.31	5.40	5.48
10	5.57	5.65	5.74	5.83	5.91	6.00	6.09	6.17	6.26	6.35
11	6.44	6.52	6.61	6.70	6.79	6.88	6.96	7.05	7.14	7.23
12	7.32	7.41	7.50	7.59	7.68	7.77	7.86	7.95	8.04	8.13
13	8.22	8.31	8.40	8.49	8.58	8.67	8.76	8.85	8.94	9.03
14	9.13	9.22	9.31	9.40	9.49	9.58	9.68	9.77	9.86	9.95
15	10.04	10.14	10.23	10.32	10.41	10.51	10.60	10.69	10.78	10.88
16	10.97	11.06	11.16	11.25	11.34	11.44	11.53	11.62	11.72	11.81
17	11.90	12.00	12.09	12.18	12.28	12.37	12.47	12.56	12.65	12.75
18	12.84	12.94	13.03	13.12	13.22	13.31	13.41	13.50	13.60	13.69
19	13.79	13.88	13.98	14.07	14.17	14.26	14.35	14.45	14.54	14.64
20	14.73	14.83	14.93	15.02	15.12	15.21	15.31	15.40	15.50	15.59

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	15.69	15.78	15.88	15.97	16.07	16.17	16.26	16.36	16.45	16.55
22	16.64	16.74	16.84	16.93	17.03	17.12	17.22	17.32	17.41	17.51
23	17.60	17.70	17.80	17.89	17.99	18.08	18.18	18.28	18.37	18.47
24	18.57	18.66	18.76	18.86	18.95	19.05	19.15	19.24	19.34	19.44
25	19.53	19.63	19.73	19.82	19.92	20.02	20.11	20.21	20.31	20.40
26	20.50	20.60	20.69	20.79	20.89	20.98	21.08	21.18	21.27	21.37
27	21.47	21.57	21.66	21.76	21.86	21.95	22.05	22.15	22.25	22.34
28	22.44	22.54	22.63	22.73	22.83	22.93	23.02	23.12	23.22	23.32
29	23.41	23.51	23.61	23.71	23.80	23.90	24.00	24.10	24.19	24.29
30	24.39	24.49	24.58	24.68	24.78	24.88	24.97	25.07	25.17	25.27
31	25.36	25.46	25.56	25.66	25.75	25.85	25.95	26.05	26.15	26.24
32	26.34	26.44	26.54	26.63	26.73	26.83	26.93	27.03	27.12	27.22
33	27.32	27.42	27.52	27.61	27.71	27.81	27.91	28.01	28.10	28.20
34	28.30	28.40	28.50	28.59	28.69	28.79	28.89	28.99	29.08	29.18
35	29.28	29.38	29.48	29.57	29.67	29.77	29.87	29.97	30.07	30.16
36	30.26	30.36	30.46	30.56	30.66	30.75	30.85	30.95	31.05	31.15
37	31.24	31.34	31.44	31.54	31.64	31.74	31.83	31.93	32.03	32.13
38	32.23	32.33	32.42	32.52	32.62	32.72	32.82	32.92	33.02	33.11
39	33.21	33.31	33.41	33.51	33.61	33.70	33.80	33.90	34.00	34.10
40	34.20	34.30	34.39	34.49	34.59	34.69	34.79	34.89	34.99	35.08

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1		0.00	0.01	0.01	0.02	0.04	0.06	0.08	0.10	0.13
2	0.15	0.18	0.22	0.25	0.29	0.33	0.37	0.41	0.45	0.50
3	0.55	0.59	0.64	0.69	0.75	0.80	0.86	0.91	0.97	1.03
4	1.09	1.15	1.21	1.27	1.33	1.40	1.46	1.53	1.59	1.66
5	1.73	1.80	1.87	1.94	2.01	2.08	2.15	2.22	2.29	2.37
6	2.44	2.52	2.59	2.67	2.74	2.82	2.89	2.97	3.05	3.13
7	3.21	3.28	3.36	3.44	3.52	3.60	3.68	3.76	3.85	3.93
8	4.01	4.09	4.17	4.26	4.34	4.42	4.51	4.59	4.67	4.76
9	4.84	4.93	5.01	5.10	5.18	5.27	5.35	5.44	5.53	5.61
10	5.70	5.79	5.87	5.96	6.05	6.13	6.22	6.31	6.40	6.49
11	6.57	6.66	6.75	6.84	6.93	7.02	7.11	7.20	7.29	7.38
12	7.47	7.56	7.65	7.74	7.83	7.92	8.01	8.10	8.19	8.28
13	8.37	8.46	8.55	8.64	8.73	8.83	8.92	9.01	9.10	9.19
14	9.28	9.38	9.47	9.56	9.65	9.74	9.84	9.93	10.02	10.11
15	10.21	10.30	10.39	10.49	10.58	10.67	10.76	10.86	10.95	11.04
16	11.14	11.23	11.33	11.42	11.51	11.61	11.70	11.79	11.89	11.98
17	12.08	12.17	12.26	12.36	12.45	12.55	12.64	12.74	12.83	12.92
18	13.02	13.11	13.21	13.30	13.40	13.49	13.59	13.68	13.78	13.87
19	13.97	14.06	14.16	14.25	14.35	14.44	14.54	14.63	14.73	14.82
20	14.92	15.02	15.11	15.21	15.30	15.40	15.49	15.59	15.68	15.78

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	15.88	15.97	16.07	16.16	16.26	16.36	16.45	16.55	16.64	16.74
22	16.84	16.93	17.03	17.12	17.22	17.32	17.41	17.51	17.61	17.70
23	17.80	17.89	17.99	18.09	18.18	18.28	18.38	18.47	18.57	18.67
24	18.76	18.86	18.96	19.05	19.15	19.25	19.34	19.44	19.54	19.63
25	19.73	19.83	19.92	20.02	20.12	20.22	20.31	20.41	20.51	20.60
26	20.70	20.80	20.89	20.99	21.09	21.19	21.28	21.38	21.48	21.57
27	21.67	21.77	21.87	21.96	22.06	22.16	22.26	22.35	22.45	22.55
28	22.65	22.74	22.84	22.94	23.04	23.13	23.23	23.33	23.43	23.52
29	23.62	23.72	23.82	23.91	24.01	24.11	24.21	24.30	24.40	24.50
30	24.60	24.70	24.79	24.89	24.99	25.09	25.18	25.28	25.38	25.48
31	25.58	25.67	25.77	25.87	25.97	26.06	26.16	26.26	26.36	26.46
32	26.55	26.65	26.75	26.85	26.95	27.04	27.14	27.24	27.34	27.44
33	27.53	27.63	27.73	27.83	27.93	28.02	28.12	28.22	28.32	28.42
34	28.52	28.61	28.71	28.81	28.91	29.01	29.10	29.20	29.30	29.40
35	29.50	29.60	29.69	29.79	29.89	29.99	30.09	30.19	30.28	30.38
36	30.48	30.58	30.68	30.78	30.87	30.97	31.07	31.17	31.27	31.37
37	31.46	31.56	31.66	31.76	31.86	31.96	32.06	32.15	32.25	32.35
38	32.45	32.55	32.65	32.75	32.84	32.94	33.04	33.14	33.24	33.34
39	33.44	33.53	33.63	33.73	33.83	33.93	34.03	34.13	34.22	34.32
40	34.42	34.52	34.62	34.72	34.82	34.91	35.01	35.11	35.21	35.31

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2 S)^2}{P+0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.09	0.12	0.14
2	0.17	0.21	0.24	0.28	0.32	0.36	0.40	0.44	0.49	0.54
3	0.59	0.64	0.69	0.74	0.80	0.85	0.91	0.97	1.03	1.09
4	1.15	1.21	1.27	1.34	1.40	1.47	1.53	1.60	1.67	1.74
5	1.80	1.87	1.95	2.02	2.09	2.16	2.23	2.31	2.38	2.46
6	2.53	2.61	2.68	2.76	2.84	2.92	2.99	3.07	3.15	3.23
7	3.31	3.39	3.47	3.55	3.63	3.71	3.79	3.88	3.96	4.04
8	4.12	4.21	4.29	4.37	4.46	4.54	4.63	4.71	4.80	4.88
9	4.97	5.05	5.14	5.22	5.31	5.40	5.48	5.57	5.66	5.75
10	5.83	5.92	6.01	6.10	6.18	6.27	6.36	6.45	6.54	6.63
11	6.72	6.81	6.90	6.98	7.07	7.16	7.25	7.34	7.43	7.52
12	7.61	7.71	7.80	7.89	7.98	8.07	8.16	8.25	8.34	8.43
13	8.53	8.62	8.71	8.80	8.89	8.98	9.08	9.17	9.26	9.35
14	9.45	9.54	9.63	9.72	9.82	9.91	10.00	10.09	10.19	10.28
15	10.37	10.47	10.56	10.65	10.75	10.84	10.94	11.03	11.12	11.22
16	11.31	11.40	11.50	11.59	11.69	11.78	11.87	11.97	12.06	12.16
17	12.25	12.35	12.44	12.54	12.63	12.73	12.82	12.91	13.01	13.10
18	13.20	13.29	13.39	13.48	13.58	13.67	13.77	13.87	13.96	14.06
19	14.15	14.25	14.34	14.44	14.53	14.63	14.72	14.82	14.92	15.01
20	15.11	15.20	15.30	15.39	15.49	15.59	15.68	15.78	15.87	15.97

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	16.07	16.16	16.26	16.36	16.45	16.55	16.64	16.74	16.84	16.93
22	17.03	17.13	17.22	17.32	17.42	17.51	17.61	17.70	17.80	17.90
23	17.99	18.09	18.19	18.28	18.38	18.48	18.58	18.67	18.77	18.87
24	18.96	19.06	19.16	19.25	19.35	19.45	19.54	19.64	19.74	19.84
25	19.93	20.03	20.13	20.22	20.32	20.42	20.52	20.61	20.71	20.81
26	20.90	21.00	21.10	21.20	21.29	21.39	21.49	21.59	21.68	21.78
27	21.88	21.98	22.07	22.17	22.27	22.37	22.46	22.56	22.66	22.76
28	22.85	22.95	23.05	23.15	23.24	23.34	23.44	23.54	23.64	23.73
29	23.83	23.93	24.03	24.12	24.22	24.32	24.42	24.52	24.61	24.71
30	24.81	24.91	25.01	25.10	25.20	25.30	25.40	25.49	25.59	25.69
31	25.79	25.89	25.98	26.08	26.18	26.28	26.38	26.48	26.57	26.67
32	26.77	26.87	26.97	27.06	27.16	27.26	27.36	27.46	27.55	27.65
33	27.75	27.85	27.95	28.05	28.14	28.24	28.34	28.44	28.54	28.64
34	28.73	28.83	28.93	29.03	29.13	29.23	29.32	29.42	29.52	29.62
35	29.72	29.82	29.91	30.01	30.11	30.21	30.31	30.41	30.51	30.60
36	30.70	30.80	30.90	31.00	31.10	31.19	31.29	31.39	31.49	31.59
37	31.69	31.79	31.88	31.98	32.08	32.18	32.28	32.38	32.48	32.57
38	32.67	32.77	32.87	32.97	33.07	33.17	33.27	33.36	33.46	33.56
39	33.66	33.76	33.86	33.96	34.05	34.15	34.25	34.35	34.45	34.55
40	34.65	34.75	34.84	34.94	35.04	35.14	35.24	35.34	35.44	35.54

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										
1	0.00	0.01	0.01	0.03	0.04	0.06	0.08	0.11	0.13	0.16
2	0.20	0.23	0.27	0.31	0.35	0.39	0.43	0.48	0.53	0.58
3	0.63	0.68	0.73	0.79	0.85	0.90	0.96	1.02	1.08	1.14
4	1.21	1.27	1.34	1.40	1.47	1.53	1.60	1.67	1.74	1.81
5	1.88	1.95	2.03	2.10	2.17	2.25	2.32	2.40	2.47	2.55
6	2.62	2.70	2.78	2.86	2.93	3.01	3.09	3.17	3.25	3.33
7	3.41	3.49	3.58	3.66	3.74	3.82	3.90	3.99	4.07	4.15
8	4.24	4.32	4.41	4.49	4.58	4.66	4.75	4.83	4.92	5.00
9	5.09	5.18	5.26	5.35	5.44	5.53	5.61	5.70	5.79	5.88
10	5.97	6.05	6.14	6.23	6.32	6.41	6.50	6.59	6.68	6.77
11	6.86	6.95	7.04	7.13	7.22	7.31	7.40	7.49	7.58	7.67
12	7.76	7.85	7.94	8.04	8.13	8.22	8.31	8.40	8.49	8.59
13	8.68	8.77	8.86	8.95	9.05	9.14	9.23	9.33	9.42	9.51
14	9.60	9.70	9.79	9.88	9.98	10.07	10.16	10.26	10.35	10.44
15	10.54	10.63	10.73	10.82	10.91	11.01	11.10	11.20	11.29	11.38
16	11.48	11.57	11.67	11.76	11.86	11.95	12.04	12.14	12.23	12.33
17	12.42	12.52	12.61	12.71	12.80	12.90	12.99	13.09	13.18	13.28
18	13.38	13.47	13.57	13.66	13.76	13.85	13.95	14.04	14.14	14.23
19	14.33	14.43	14.52	14.62	14.71	14.81	14.91	15.00	15.10	15.19
20	15.29	15.39	15.48	15.58	15.67	15.77	15.87	15.96	16.06	16.16

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	16.25	16.35	16.45	16.54	16.64	16.73	16.83	16.93	17.02	17.12
22	17.22	17.31	17.41	17.51	17.60	17.70	17.80	17.89	17.99	18.09
23	18.19	18.28	18.38	18.48	18.57	18.67	18.77	18.86	18.96	19.06
24	19.16	19.25	19.35	19.45	19.54	19.64	19.74	19.84	19.93	20.03
25	20.13	20.23	20.32	20.42	20.52	20.61	20.71	20.81	20.91	21.00
26	21.10	21.20	21.30	21.39	21.49	21.59	21.69	21.79	21.88	21.98
27	22.08	22.18	22.27	22.37	22.47	22.57	22.66	22.76	22.86	22.96
28	23.06	23.15	23.25	23.35	23.45	23.54	23.64	23.74	23.84	23.94
29	24.03	24.13	24.23	24.33	24.43	24.52	24.62	24.72	24.82	24.92
30	25.01	25.11	25.21	25.31	25.41	25.50	25.60	25.70	25.80	25.90
31	26.00	26.09	26.19	26.29	26.39	26.49	26.58	26.68	26.78	26.88
32	26.98	27.08	27.17	27.27	27.37	27.47	27.57	27.67	27.76	27.86
33	27.96	28.06	28.16	28.26	28.35	28.45	28.55	28.65	28.75	28.85
34	28.94	29.04	29.14	29.24	29.34	29.44	29.54	29.63	29.73	29.83
35	29.93	30.03	30.13	30.23	30.32	30.42	30.52	30.62	30.72	30.82
36	30.92	31.01	31.11	31.21	31.31	31.41	31.51	31.61	31.70	31.80
37	31.90	32.00	32.10	32.20	32.30	32.40	32.49	32.59	32.69	32.79
38	32.89	32.99	33.09	33.19	33.28	33.38	33.48	33.58	33.68	33.78
39	33.88	33.98	34.07	34.17	34.27	34.37	34.47	34.57	34.67	34.77
40	34.86	34.96	35.06	35.16	35.26	35.36	35.46	35.56	35.66	35.75

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										0.00
1	0.00	0.01	0.02	0.03	0.05	0.07	0.09	0.12	0.15	0.18
2	0.22	0.25	0.29	0.33	0.38	0.42	0.47	0.52	0.57	0.62
3	0.67	0.72	0.78	0.84	0.90	0.95	1.02	1.08	1.14	1.20
4	1.27	1.33	1.40	1.47	1.53	1.60	1.67	1.74	1.81	1.89
5	1.96	2.03	2.11	2.18	2.25	2.33	2.41	2.48	2.56	2.64
6	2.71	2.79	2.87	2.95	3.03	3.11	3.19	3.27	3.35	3.43
7	3.52	3.60	3.68	3.76	3.85	3.93	4.01	4.10	4.18	4.27
8	4.35	4.44	4.52	4.61	4.69	4.78	4.87	4.95	5.04	5.13
9	5.21	5.30	5.39	5.48	5.56	5.65	5.74	5.83	5.92	6.01
10	6.10	6.18	6.27	6.36	6.45	6.54	6.63	6.72	6.81	6.90
11	6.99	7.08	7.17	7.27	7.36	7.45	7.54	7.63	7.72	7.81
12	7.90	8.00	8.09	8.18	8.27	8.36	8.46	8.55	8.64	8.73
13	8.83	8.92	9.01	9.11	9.20	9.29	9.38	9.48	9.57	9.66
14	9.76	9.85	9.95	10.04	10.13	10.23	10.32	10.41	10.51	10.60
15	10.70	10.79	10.88	10.98	11.07	11.17	11.26	11.36	11.45	11.55
16	11.64	11.74	11.83	11.93	12.02	12.12	12.21	12.31	12.40	12.50
17	12.59	12.69	12.78	12.88	12.97	13.07	13.16	13.26	13.35	13.45
18	13.55	13.64	13.74	13.83	13.93	14.02	14.12	14.22	14.31	14.41
19	14.50	14.60	14.70	14.79	14.89	14.99	15.08	15.18	15.27	15.37
20	15.47	15.56	15.66	15.76	15.85	15.95	16.05	16.14	16.24	16.34

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	16.43	16.53	16.63	16.72	16.82	16.92	17.01	17.11	17.21	17.30
22	17.40	17.50	17.59	17.69	17.79	17.88	17.98	18.08	18.18	18.27
23	18.37	18.47	18.56	18.66	18.76	18.86	18.95	19.05	19.15	19.25
24	19.34	19.44	19.54	19.63	19.73	19.83	19.93	20.02	20.12	20.22
25	20.32	20.41	20.51	20.61	20.71	20.80	20.90	21.00	21.10	21.20
26	21.29	21.39	21.49	21.59	21.68	21.78	21.88	21.98	22.08	22.17
27	22.27	22.37	22.47	22.56	22.66	22.76	22.86	22.96	23.05	23.15
28	23.25	23.35	23.45	23.54	23.64	23.74	23.84	23.94	24.03	24.13
29	24.23	24.33	24.43	24.52	24.62	24.72	24.82	24.92	25.02	25.11
30	25.21	25.31	25.41	25.51	25.61	25.70	25.80	25.90	26.00	26.10
31	26.19	26.29	26.39	26.49	26.59	26.69	26.78	26.88	26.98	27.08
32	27.18	27.28	27.38	27.47	27.57	27.67	27.77	27.87	27.97	28.06
33	28.16	28.26	28.36	28.46	28.56	28.66	28.75	28.85	28.95	29.05
34	29.15	29.25	29.35	29.44	29.54	29.64	29.74	29.84	29.94	30.04
35	30.13	30.23	30.33	30.43	30.53	30.63	30.73	30.83	30.92	31.02
36	31.12	31.22	31.32	31.42	31.52	31.61	31.71	31.81	31.91	32.01
37	32.11	32.21	32.31	32.40	32.50	32.60	32.70	32.80	32.90	33.00
38	33.10	33.20	33.29	33.39	33.49	33.59	33.69	33.79	33.89	33.99
39	34.09	34.18	34.28	34.38	34.48	34.58	34.68	34.78	34.88	34.98
40	35.07	35.17	35.27	35.37	35.47	35.57	35.67	35.77	35.87	35.97

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										0.00
1	0.00	0.01	0.03	0.04	0.06	0.08	0.11	0.14	0.17	0.20
2	0.24	0.28	0.32	0.36	0.41	0.46	0.50	0.56	0.61	0.66
3	0.72	0.77	0.83	0.89	0.95	1.01	1.07	1.14	1.20	1.27
4	1.33	1.40	1.47	1.54	1.61	1.68	1.75	1.82	1.89	1.96
5	2.04	2.11	2.19	2.26	2.34	2.42	2.49	2.57	2.65	2.73
6	2.81	2.89	2.97	3.05	3.13	3.21	3.29	3.37	3.46	3.54
7	3.62	3.70	3.79	3.87	3.96	4.04	4.13	4.21	4.30	4.38
8	4.47	4.55	4.64	4.73	4.81	4.90	4.99	5.07	5.16	5.25
9	5.34	5.43	5.52	5.60	5.69	5.78	5.87	5.96	6.05	6.14
10	6.23	6.32	6.41	6.50	6.59	6.68	6.77	6.86	6.95	7.04
11	7.13	7.23	7.32	7.41	7.50	7.59	7.68	7.78	7.87	7.96
12	8.05	8.14	8.24	8.33	8.42	8.51	8.61	8.70	8.79	8.89
13	8.98	9.07	9.17	9.26	9.35	9.45	9.54	9.63	9.73	9.82
14	9.92	10.01	10.10	10.20	10.29	10.39	10.48	10.57	10.67	10.76
15	10.86	10.95	11.05	11.14	11.24	11.33	11.43	11.52	11.62	11.71
16	11.81	11.90	12.00	12.09	12.19	12.28	12.38	12.47	12.57	12.67
17	12.76	12.86	12.95	13.05	13.14	13.24	13.34	13.43	13.53	13.62
18	13.72	13.82	13.91	14.01	14.10	14.20	14.30	14.39	14.49	14.58
19	14.68	14.78	14.87	14.97	15.07	15.16	15.26	15.36	15.45	15.55
20	15.65	15.74	15.84	15.94	16.03	16.13	16.23	16.32	16.42	16.52

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	16.61	16.71	16.81	16.90	17.00	17.10	17.20	17.29	17.39	17.49
22	17.58	17.68	17.78	17.88	17.97	18.07	18.17	18.27	18.36	18.46
23	18.56	18.65	18.75	18.85	18.95	19.04	19.14	19.24	19.34	19.43
24	19.53	19.63	19.73	19.82	19.92	20.02	20.12	20.22	20.31	20.41
25	20.51	20.61	20.70	20.80	20.90	21.00	21.10	21.19	21.29	21.39
26	21.49	21.58	21.68	21.78	21.88	21.98	22.07	22.17	22.27	22.37
27	22.47	22.56	22.66	22.76	22.86	22.96	23.05	23.15	23.25	23.35
28	23.45	23.55	23.64	23.74	23.84	23.94	24.04	24.13	24.23	24.33
29	24.43	24.53	24.63	24.72	24.82	24.92	25.02	25.12	25.22	25.31
30	25.41	25.51	25.61	25.71	25.81	25.90	26.00	26.10	26.20	26.30
31	26.40	26.49	26.59	26.69	26.79	26.89	26.99	27.09	27.18	27.28
32	27.38	27.48	27.58	27.68	27.78	27.87	27.97	28.07	28.17	28.27
33	28.37	28.47	28.56	28.66	28.76	28.86	28.96	29.06	29.16	29.25
34	29.35	29.45	29.55	29.65	29.75	29.85	29.95	30.04	30.14	30.24
35	30.34	30.44	30.54	30.64	30.74	30.83	30.93	31.03	31.13	31.23
36	31.33	31.43	31.53	31.63	31.72	31.82	31.92	32.02	32.12	32.22
37	32.32	32.42	32.51	32.61	32.71	32.81	32.91	33.01	33.11	33.21
38	33.31	33.41	33.50	33.60	33.70	33.80	33.90	34.00	34.10	34.20
39	34.30	34.39	34.49	34.59	34.69	34.79	34.89	34.99	35.09	35.19
40	35.29	35.38	35.48	35.58	35.68	35.78	35.88	35.98	36.08	36.18

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0										0.00
1	0.01	0.02	0.03	0.05	0.07	0.10	0.13	0.16	0.19	0.23
2	0.27	0.31	0.35	0.40	0.44	0.49	0.54	0.60	0.65	0.70
3	0.76	0.82	0.88	0.94	1.00	1.07	1.13	1.19	1.26	1.33
4	1.40	1.46	1.53	1.60	1.68	1.75	1.82	1.89	1.97	2.04
5	2.12	2.19	2.27	2.35	2.43	2.50	2.58	2.66	2.74	2.82
6	2.90	2.98	3.06	3.14	3.23	3.31	3.39	3.47	3.56	3.64
7	3.73	3.81	3.89	3.98	4.06	4.15	4.24	4.32	4.41	4.50
8	4.58	4.67	4.76	4.84	4.93	5.02	5.11	5.20	5.28	5.37
9	5.46	5.55	5.64	5.73	5.82	5.91	6.00	6.09	6.18	6.27
10	6.36	6.45	6.54	6.63	6.72	6.81	6.90	7.00	7.09	7.18
11	7.27	7.36	7.45	7.55	7.64	7.73	7.82	7.92	8.01	8.10
12	8.19	8.29	8.38	8.47	8.57	8.66	8.75	8.85	8.94	9.03
13	9.13	9.22	9.32	9.41	9.50	9.60	9.69	9.79	9.88	9.97
14	10.07	10.16	10.26	10.35	10.45	10.54	10.64	10.73	10.83	10.92
15	11.02	11.11	11.21	11.30	11.40	11.49	11.59	11.68	11.78	11.87
16	11.97	12.06	12.16	12.25	12.35	12.45	12.54	12.64	12.73	12.83
17	12.93	13.02	13.12	13.21	13.31	13.41	13.50	13.60	13.69	13.79
18	13.89	13.98	14.08	14.18	14.27	14.37	14.47	14.56	14.66	14.76
19	14.85	14.95	15.05	15.14	15.24	15.34	15.43	15.53	15.63	15.72
20	15.82	15.92	16.01	16.11	16.21	16.30	16.40	16.50	16.60	16.69

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	16.79	16.89	16.98	17.08	17.18	17.28	17.37	17.47	17.57	17.67
22	17.76	17.86	17.96	18.06	18.15	18.25	18.35	18.45	18.54	18.64
23	18.74	18.84	18.93	19.03	19.13	19.23	19.32	19.42	19.52	19.62
24	19.71	19.81	19.91	20.01	20.11	20.20	20.30	20.40	20.50	20.60
25	20.69	20.79	20.89	20.99	21.08	21.18	21.28	21.38	21.48	21.57
26	21.67	21.77	21.87	21.97	22.07	22.16	22.26	22.36	22.46	22.56
27	22.65	22.75	22.85	22.95	23.05	23.15	23.24	23.34	23.44	23.54
28	23.64	23.73	23.83	23.93	24.03	24.13	24.23	24.32	24.42	24.52
29	24.62	24.72	24.82	24.92	25.01	25.11	25.21	25.31	25.41	25.51
30	25.60	25.70	25.80	25.90	26.00	26.10	26.20	26.29	26.39	26.49
31	26.59	26.69	26.79	26.89	26.98	27.08	27.18	27.28	27.38	27.48
32	27.58	27.67	27.77	27.87	27.97	28.07	28.17	28.27	28.37	28.46
33	28.56	28.66	28.76	28.86	28.96	29.06	29.16	29.25	29.35	29.45
34	29.55	29.65	29.75	29.85	29.95	30.04	30.14	30.24	30.34	30.44
35	30.54	30.64	30.74	30.84	30.93	31.03	31.13	31.23	31.33	31.43
36	31.53	31.63	31.73	31.82	31.92	32.02	32.12	32.22	32.32	32.42
37	32.52	32.62	32.72	32.81	32.91	33.01	33.11	33.21	33.31	33.41
38	33.51	33.61	33.71	33.80	33.90	34.00	34.10	34.20	34.30	34.40
39	34.50	34.60	34.70	34.80	34.89	34.99	35.09	35.19	35.29	35.39
40	35.49	35.59	35.69	35.79	35.89	35.98	36.08	36.18	36.28	36.38

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0									0.00	0.00
1	0.01	0.02	0.04	0.06	0.09	0.11	0.14	0.18	0.21	0.25
2	0.29	0.34	0.38	0.43	0.48	0.53	0.58	0.64	0.69	0.75
3	0.81	0.87	0.93	0.99	1.06	1.12	1.19	1.25	1.32	1.39
4	1.46	1.53	1.60	1.67	1.75	1.82	1.89	1.97	2.04	2.12
5	2.20	2.27	2.35	2.43	2.51	2.59	2.67	2.75	2.83	2.91
6	2.99	3.07	3.16	3.24	3.32	3.41	3.49	3.57	3.66	3.74
7	3.83	3.91	4.00	4.09	4.17	4.26	4.34	4.43	4.52	4.61
8	4.69	4.78	4.87	4.96	5.05	5.14	5.22	5.31	5.40	5.49
9	5.58	5.67	5.76	5.85	5.94	6.03	6.12	6.21	6.30	6.39
10	6.49	6.58	6.67	6.76	6.85	6.94	7.04	7.13	7.22	7.31
11	7.40	7.50	7.59	7.68	7.77	7.87	7.96	8.05	8.15	8.24
12	8.33	8.43	8.52	8.61	8.71	8.80	8.90	8.99	9.08	9.18
13	9.27	9.37	9.46	9.55	9.65	9.74	9.84	9.93	10.03	10.12
14	10.22	10.31	10.41	10.50	10.60	10.69	10.79	10.88	10.98	11.07
15	11.17	11.26	11.36	11.45	11.55	11.65	11.74	11.84	11.93	12.03
16	12.12	12.22	12.32	12.41	12.51	12.60	12.70	12.80	12.89	12.99
17	13.08	13.18	13.28	13.37	13.47	13.57	13.66	13.76	13.86	13.95
18	14.05	14.15	14.24	14.34	14.44	14.53	14.63	14.73	14.82	14.92
19	15.02	15.11	15.21	15.31	15.40	15.50	15.60	15.70	15.79	15.89
20	15.99	16.08	16.18	16.28	16.38	16.47	16.57	16.67	16.76	16.86

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	16.96	17.06	17.15	17.25	17.35	17.45	17.54	17.64	17.74	17.84
22	17.93	18.03	18.13	18.23	18.33	18.42	18.52	18.62	18.72	18.81
23	18.91	19.01	19.11	19.20	19.30	19.40	19.50	19.60	19.69	19.79
24	19.89	19.99	20.09	20.18	20.28	20.38	20.48	20.58	20.67	20.77
25	20.87	20.97	21.07	21.16	21.26	21.36	21.46	21.56	21.66	21.75
26	21.85	21.95	22.05	22.15	22.24	22.34	22.44	22.54	22.64	22.74
27	22.83	22.93	23.03	23.13	23.23	23.33	23.42	23.52	23.62	23.72
28	23.82	23.92	24.02	24.11	24.21	24.31	24.41	24.51	24.61	24.70
29	24.80	24.90	25.00	25.10	25.20	25.30	25.39	25.49	25.59	25.69
30	25.79	25.89	25.99	26.08	26.18	26.28	26.38	26.48	26.58	26.68
31	26.78	26.87	26.97	27.07	27.17	27.27	27.37	27.47	27.57	27.66
32	27.76	27.86	27.96	28.06	28.16	28.26	28.36	28.45	28.55	28.65
33	28.75	28.85	28.95	29.05	29.15	29.25	29.34	29.44	29.54	29.64
34	29.74	29.84	29.94	30.04	30.14	30.23	30.33	30.43	30.53	30.63
35	30.73	30.83	30.93	31.03	31.12	31.22	31.32	31.42	31.52	31.62
36	31.72	31.82	31.92	32.02	32.11	32.21	32.31	32.41	32.51	32.61
37	32.71	32.81	32.91	33.01	33.11	33.20	33.30	33.40	33.50	33.60
38	33.70	33.80	33.90	34.00	34.10	34.20	34.29	34.39	34.49	34.59
39	34.69	34.79	34.89	34.99	35.09	35.19	35.29	35.39	35.48	35.58
40	35.68	35.78	35.88	35.98	36.08	36.18	36.28	36.38	36.48	36.58

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0									0.00	0.01
1	0.02	0.03	0.05	0.07	0.10	0.13	0.16	0.20	0.24	0.28
2	0.32	0.37	0.41	0.46	0.51	0.57	0.62	0.68	0.74	0.80
3	0.86	0.92	0.98	1.05	1.11	1.18	1.25	1.32	1.39	1.46
4	1.53	1.60	1.67	1.75	1.82	1.90	1.97	2.05	2.12	2.20
5	2.28	2.36	2.44	2.52	2.60	2.68	2.76	2.84	2.92	3.01
6	3.09	3.17	3.25	3.34	3.42	3.51	3.59	3.68	3.76	3.85
7	3.93	4.02	4.11	4.19	4.28	4.37	4.46	4.54	4.63	4.72
8	4.81	4.90	4.99	5.08	5.17	5.25	5.34	5.43	5.52	5.61
9	5.70	5.80	5.89	5.98	6.07	6.16	6.25	6.34	6.43	6.52
10	6.62	6.71	6.80	6.89	6.98	7.08	7.17	7.26	7.35	7.45
11	7.54	7.63	7.73	7.82	7.91	8.01	8.10	8.19	8.29	8.38
12	8.48	8.57	8.66	8.76	8.85	8.95	9.04	9.13	9.23	9.32
13	9.42	9.51	9.61	9.70	9.80	9.89	9.99	10.08	10.18	10.27
14	10.37	10.46	10.56	10.65	10.75	10.84	10.94	11.04	11.13	11.23
15	11.32	11.42	11.51	11.61	11.71	11.80	11.90	11.99	12.09	12.19
16	12.28	12.38	12.47	12.57	12.67	12.76	12.86	12.96	13.05	13.15
17	13.25	13.34	13.44	13.54	13.63	13.73	13.83	13.92	14.02	14.12
18	14.21	14.31	14.41	14.50	14.60	14.70	14.79	14.89	14.99	15.09
19	15.18	15.28	15.38	15.47	15.57	15.67	15.77	15.86	15.96	16.06
20	16.16	16.25	16.35	16.45	16.55	16.64	16.74	16.84	16.94	17.03

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	17.13	17.23	17.33	17.42	17.52	17.62	17.72	17.82	17.91	18.01
22	18.11	18.21	18.30	18.40	18.50	18.60	18.70	18.79	18.89	18.99
23	19.09	19.19	19.28	19.38	19.48	19.58	19.68	19.77	19.87	19.97
24	20.07	20.17	20.26	20.36	20.46	20.56	20.66	20.75	20.85	20.95
25	21.05	21.15	21.25	21.34	21.44	21.54	21.64	21.74	21.84	21.93
26	22.03	22.13	22.23	22.33	22.43	22.52	22.62	22.72	22.82	22.92
27	23.02	23.12	23.21	23.31	23.41	23.51	23.61	23.71	23.81	23.90
28	24.00	24.10	24.20	24.30	24.40	24.50	24.59	24.69	24.79	24.89
29	24.99	25.09	25.19	25.28	25.38	25.48	25.58	25.68	25.78	25.88
30	25.98	26.07	26.17	26.27	26.37	26.47	26.57	26.67	26.77	26.86
31	26.96	27.06	27.16	27.26	27.36	27.46	27.56	27.65	27.75	27.85
32	27.95	28.05	28.15	28.25	28.35	28.45	28.54	28.64	28.74	28.84
33	28.94	29.04	29.14	29.24	29.34	29.44	29.53	29.63	29.73	29.83
34	29.93	30.03	30.13	30.23	30.33	30.43	30.52	30.62	30.72	30.82
35	30.92	31.02	31.12	31.22	31.32	31.42	31.52	31.61	31.71	31.81
36	31.91	32.01	32.11	32.21	32.31	32.41	32.51	32.61	32.70	32.80
37	32.90	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80
38	33.89	33.99	34.09	34.19	34.29	34.39	34.49	34.59	34.69	34.79
39	34.89	34.99	35.08	35.18	35.28	35.38	35.48	35.58	35.68	35.78
40	35.88	35.98	36.08	36.18	36.28	36.37	36.47	36.57	36.67	36.77

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0									0.00	0.01
1	0.02	0.04	0.06	0.09	0.12	0.15	0.18	0.22	0.26	0.30
2	0.35	0.40	0.45	0.50	0.55	0.61	0.67	0.72	0.78	0.85
3	0.91	0.97	1.04	1.11	1.17	1.24	1.31	1.38	1.45	1.52
4	1.60	1.67	1.75	1.82	1.90	1.97	2.05	2.13	2.21	2.29
5	2.37	2.45	2.53	2.61	2.69	2.77	2.85	2.94	3.02	3.10
6	3.19	3.27	3.36	3.44	3.53	3.61	3.70	3.78	3.87	3.96
7	4.04	4.13	4.22	4.31	4.39	4.48	4.57	4.66	4.75	4.84
8	4.93	5.02	5.11	5.20	5.29	5.38	5.47	5.56	5.65	5.74
9	5.83	5.92	6.01	6.11	6.20	6.29	6.38	6.47	6.57	6.66
10	6.75	6.84	6.94	7.03	7.12	7.21	7.31	7.40	7.49	7.59
11	7.68	7.77	7.87	7.96	8.06	8.15	8.24	8.34	8.43	8.53
12	8.62	8.71	8.81	8.90	9.00	9.09	9.19	9.28	9.38	9.47
13	9.57	9.66	9.76	9.85	9.95	10.04	10.14	10.23	10.33	10.43
14	10.52	10.62	10.71	10.81	10.90	11.00	11.10	11.19	11.29	11.38
15	11.48	11.58	11.67	11.77	11.86	11.96	12.06	12.15	12.25	12.35
16	12.44	12.54	12.64	12.73	12.83	12.93	13.02	13.12	13.22	13.31
17	13.41	13.51	13.60	13.70	13.80	13.89	13.99	14.09	14.19	14.28
18	14.38	14.48	14.57	14.67	14.77	14.87	14.96	15.06	15.16	15.26
19	15.35	15.45	15.55	15.65	15.74	15.84	15.94	16.04	16.13	16.23
20	16.33	16.43	16.52	16.62	16.72	16.82	16.91	17.01	17.11	17.21

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

<div>Tenths Inches</div>	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	17.31	17.40	17.50	17.60	17.70	17.79	17.89	17.99	18.09	18.19
22	18.28	18.38	18.48	18.58	18.68	18.77	18.87	18.97	19.07	19.17
23	19.27	19.36	19.46	19.56	19.66	19.76	19.85	19.95	20.05	20.15
24	20.25	20.35	20.44	20.54	20.64	20.74	20.84	20.94	21.03	21.13
25	21.23	21.33	21.43	21.53	21.62	21.72	21.82	21.92	22.02	22.12
26	22.22	22.31	22.41	22.51	22.61	22.71	22.81	22.91	23.00	23.10
27	23.20	23.30	23.40	23.50	23.60	23.69	23.79	23.89	23.99	24.09
28	24.19	24.29	24.39	24.48	24.58	24.68	24.78	24.88	24.98	25.08
29	25.18	25.27	25.37	25.47	25.57	25.67	25.77	25.87	25.97	26.06
30	26.16	26.26	26.36	26.46	26.56	26.66	26.76	26.86	26.95	27.05
31	27.15	27.25	27.35	27.45	27.55	27.65	27.75	27.84	27.94	28.04
32	28.14	28.24	28.34	28.44	28.54	28.64	28.74	28.83	28.93	29.03
33	29.13	29.23	29.33	29.43	29.53	29.63	29.73	29.83	29.92	30.02
34	30.12	30.22	30.32	30.42	30.52	30.62	30.72	30.82	30.92	31.01
35	31.11	31.21	31.31	31.41	31.51	31.61	31.71	31.81	31.91	32.01
36	32.11	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	33.00
37	33.10	33.20	33.30	33.40	33.49	33.59	33.69	33.79	33.89	33.99
38	34.09	34.19	34.29	34.39	34.49	34.59	34.69	34.78	34.88	34.98
39	35.08	35.18	35.28	35.38	35.48	35.58	35.68	35.78	35.88	35.98
40	36.08	36.18	36.27	36.37	36.47	36.57	36.67	36.77	36.87	36.97

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0								0.00	0.01	0.02
1	0.03	0.05	0.07	0.10	0.13	0.17	0.20	0.24	0.29	0.33
2	0.38	0.43	0.48	0.54	0.59	0.65	0.71	0.77	0.83	0.90
3	0.96	1.03	1.10	1.16	1.23	1.30	1.37	1.45	1.52	1.59
4	1.67	1.74	1.82	1.90	1.97	2.05	2.13	2.21	2.29	2.37
5	2.45	2.53	2.61	2.70	2.78	2.86	2.95	3.03	3.11	3.20
6	3.28	3.37	3.46	3.54	3.63	3.71	3.80	3.89	3.98	4.06
7	4.15	4.24	4.33	4.42	4.51	4.59	4.68	4.77	4.86	4.95
8	5.04	5.13	5.22	5.32	5.41	5.50	5.59	5.68	5.77	5.86
9	5.95	6.05	6.14	6.23	6.32	6.42	6.51	6.60	6.69	6.79
10	6.88	6.97	7.07	7.16	7.25	7.35	7.44	7.53	7.63	7.72
11	7.82	7.91	8.00	8.10	8.19	8.29	8.38	8.48	8.57	8.67
12	8.76	8.86	8.95	9.05	9.14	9.24	9.33	9.43	9.52	9.62
13	9.71	9.81	9.90	10.00	10.09	10.19	10.29	10.38	10.48	10.57
14	10.67	10.77	10.86	10.96	11.05	11.15	11.25	11.34	11.44	11.54
15	11.63	11.73	11.82	11.92	12.02	12.11	12.21	12.31	12.40	12.50
16	12.60	12.69	12.79	12.89	12.99	13.08	13.18	13.28	13.37	13.47
17	13.57	13.67	13.76	13.86	13.96	14.05	14.15	14.25	14.35	14.44
18	14.54	14.64	14.74	14.83	14.93	15.03	15.13	15.22	15.32	15.42
19	15.52	15.61	15.71	15.81	15.91	16.00	16.10	16.20	16.30	16.40
20	16.49	16.59	16.69	16.79	16.88	16.98	17.08	17.18	17.28	17.37

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	17.47	17.57	17.67	17.77	17.86	17.96	18.06	18.16	18.26	18.36
22	18.45	18.55	18.65	18.75	18.85	18.94	19.04	19.14	19.24	19.34
23	19.44	19.53	19.63	19.73	19.83	19.93	20.03	20.12	20.22	20.32
24	20.42	20.52	20.62	20.72	20.81	20.91	21.01	21.11	21.21	21.31
25	21.40	21.50	21.60	21.70	21.80	21.90	22.00	22.09	22.19	22.29
26	22.39	22.49	22.59	22.69	22.79	22.88	22.98	23.08	23.18	23.28
27	23.38	23.48	23.58	23.67	23.77	23.87	23.97	24.07	24.17	24.27
28	24.37	24.46	24.56	24.66	24.76	24.86	24.96	25.06	25.16	25.26
29	25.35	25.45	25.55	25.65	25.75	25.85	25.95	26.05	26.15	26.24
30	26.34	26.44	26.54	26.64	26.74	26.84	26.94	27.04	27.14	27.23
31	27.33	27.43	27.53	27.63	27.73	27.83	27.93	28.03	28.13	28.22
32	28.32	28.42	28.52	28.62	28.72	28.82	28.92	29.02	29.12	29.22
33	29.31	29.41	29.51	29.61	29.71	29.81	29.91	30.01	30.11	30.21
34	30.31	30.41	30.50	30.60	30.70	30.80	30.90	31.00	31.10	31.20
35	31.30	31.40	31.50	31.60	31.70	31.79	31.89	31.99	32.09	32.19
36	32.29	32.39	32.49	32.59	32.69	32.79	32.89	32.99	33.08	33.18
37	33.28	33.38	33.48	33.58	33.68	33.78	33.88	33.98	34.08	34.18
38	34.28	34.38	34.48	34.57	34.67	34.77	34.87	34.97	35.07	35.17
39	35.27	35.37	35.47	35.57	35.67	35.77	35.87	35.97	36.07	36.16
40	36.26	36.36	36.46	36.56	36.66	36.76	36.86	36.96	37.06	37.16

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0								0.00	0.01	0.02
1	0.04	0.06	0.09	0.12	0.15	0.19	0.23	0.27	0.32	0.36
2	0.41	0.47	0.52	0.58	0.63	0.69	0.76	0.82	0.88	0.95
3	1.01	1.08	1.15	1.22	1.29	1.36	1.44	1.51	1.59	1.66
4	1.74	1.81	1.89	1.97	2.05	2.13	2.21	2.29	2.37	2.45
5	2.53	2.62	2.70	2.78	2.87	2.95	3.04	3.12	3.21	3.29
6	3.38	3.47	3.55	3.64	3.73	3.81	3.90	3.99	4.08	4.17
7	4.26	4.35	4.43	4.52	4.61	4.70	4.79	4.88	4.97	5.07
8	5.16	5.25	5.34	5.43	5.52	5.61	5.71	5.80	5.89	5.98
9	6.07	6.17	6.26	6.35	6.45	6.54	6.63	6.72	6.82	6.91
10	7.01	7.10	7.19	7.29	7.38	7.47	7.57	7.66	7.76	7.85
11	7.95	8.04	8.14	8.23	8.32	8.42	8.51	8.61	8.70	8.80
12	8.90	8.99	9.09	9.18	9.28	9.37	9.47	9.56	9.66	9.76
13	9.85	9.95	10.04	10.14	10.23	10.33	10.43	10.52	10.62	10.72
14	10.81	10.91	11.00	11.10	11.20	11.29	11.39	11.49	11.58	11.68
15	11.78	11.87	11.97	12.07	12.16	12.26	12.36	12.46	12.55	12.65
16	12.75	12.84	12.94	13.04	13.14	13.23	13.33	13.43	13.52	13.62
17	13.72	13.82	13.91	14.01	14.11	14.21	14.30	14.40	14.50	14.60
18	14.69	14.79	14.89	14.99	15.09	15.18	15.28	15.38	15.48	15.57
19	15.67	15.77	15.87	15.97	16.06	16.16	16.26	16.36	16.46	16.55
20	16.65	16.75	16.85	16.95	17.04	17.14	17.24	17.34	17.44	17.53

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	17.63	17.73	17.83	17.93	18.03	18.12	18.22	18.32	18.42	18.52
22	18.62	18.71	18.81	18.91	19.01	19.11	19.21	19.30	19.40	19.50
23	19.60	19.70	19.80	19.89	19.99	20.09	20.19	20.29	20.39	20.49
24	20.58	20.68	20.78	20.88	20.98	21.08	21.18	21.27	21.37	21.47
25	21.57	21.67	21.77	21.87	21.97	22.06	22.16	22.26	22.36	22.46
26	22.56	22.66	22.76	22.85	22.95	23.05	23.15	23.25	23.35	23.45
27	23.55	23.65	23.74	23.84	23.94	24.04	24.14	24.24	24.34	24.44
28	24.54	24.63	24.73	24.83	24.93	25.03	25.13	25.23	25.33	25.43
29	25.52	25.62	25.72	25.82	25.92	26.02	26.12	26.22	26.32	26.42
30	26.51	26.61	26.71	26.81	26.91	27.01	27.11	27.21	27.31	27.41
31	27.51	27.60	27.70	27.80	27.90	28.00	28.10	28.20	28.30	28.40
32	28.50	28.60	28.70	28.79	28.89	28.99	29.09	29.19	29.29	29.39
33	29.49	29.59	29.69	29.79	29.89	29.99	30.08	30.18	30.28	30.38
34	30.48	30.58	30.68	30.78	30.88	30.98	31.08	31.18	31.28	31.37
35	31.47	31.57	31.67	31.77	31.87	31.97	32.07	32.17	32.27	32.37
36	32.47	32.57	32.67	32.77	32.86	32.96	33.06	33.16	33.26	33.36
37	33.46	33.56	33.66	33.76	33.86	33.96	34.06	34.16	34.26	34.35
38	34.45	34.55	34.65	34.75	34.85	34.95	35.05	35.15	35.25	35.35
39	35.45	35.55	35.65	35.75	35.85	35.95	36.04	36.14	36.24	36.34
40	36.44	36.54	36.64	36.74	36.84	36.94	37.04	37.14	37.24	37.34

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2 S)^2}{P+0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0							0.00	0.00	0.01	0.03
1	0.05	0.07	0.10	0.13	0.17	0.21	0.25	0.30	0.34	0.39
2	0.45	0.50	0.56	0.62	0.68	0.74	0.80	0.87	0.93	1.00
3	1.07	1.14	1.21	1.28	1.36	1.43	1.50	1.58	1.66	1.73
4	1.81	1.89	1.97	2.05	2.13	2.21	2.29	2.37	2.46	2.54
5	2.62	2.71	2.79	2.87	2.96	3.04	3.13	3.22	3.30	3.39
6	3.48	3.56	3.65	3.74	3.83	3.92	4.01	4.10	4.18	4.27
7	4.36	4.45	4.54	4.63	4.72	4.82	4.91	5.00	5.09	5.18
8	5.27	5.36	5.46	5.55	5.64	5.73	5.83	5.92	6.01	6.10
9	6.20	6.29	6.38	6.48	6.57	6.66	6.76	6.85	6.95	7.04
10	7.13	7.23	7.32	7.42	7.51	7.61	7.70	7.79	7.89	7.98
11	8.08	8.17	8.27	8.36	8.46	8.56	8.65	8.75	8.84	8.94
12	9.03	9.13	9.22	9.32	9.42	9.51	9.61	9.70	9.80	9.90
13	9.99	10.09	10.19	10.28	10.38	10.47	10.57	10.67	10.76	10.86
14	10.96	11.05	11.15	11.25	11.34	11.44	11.54	11.64	11.73	11.83
15	11.93	12.02	12.12	12.22	12.31	12.41	12.51	12.61	12.70	12.80
16	12.90	13.00	13.09	13.19	13.29	13.39	13.48	13.58	13.68	13.78
17	13.87	13.97	14.07	14.17	14.26	14.36	14.46	14.56	14.65	14.75
18	14.85	14.95	15.05	15.14	15.24	15.34	15.44	15.54	15.63	15.73
19	15.83	15.93	16.03	16.12	16.22	16.32	16.42	16.52	16.61	16.71
20	16.81	16.91	17.01	17.11	17.20	17.30	17.40	17.50	17.60	17.70

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	17.79	17.89	17.99	18.09	18.19	18.29	18.38	18.48	18.58	18.68
22	18.78	18.88	18.98	19.07	19.17	19.27	19.37	19.47	19.57	19.67
23	19.76	19.86	19.96	20.06	20.16	20.26	20.36	20.45	20.55	20.65
24	20.75	20.85	20.95	21.05	21.15	21.24	21.34	21.44	21.54	21.64
25	21.74	21.84	21.94	22.03	22.13	22.23	22.33	22.43	22.53	22.63
26	22.73	22.83	22.92	23.02	23.12	23.22	23.32	23.42	23.52	23.62
27	23.72	23.82	23.91	24.01	24.11	24.21	24.31	24.41	24.51	24.61
28	24.71	24.81	24.90	25.00	25.10	25.20	25.30	25.40	25.50	25.60
29	25.70	25.80	25.89	25.99	26.09	26.19	26.29	26.39	26.49	26.59
30	26.69	26.79	26.89	26.99	27.08	27.18	27.28	27.38	27.48	27.58
31	27.68	27.78	27.88	27.98	28.08	28.18	28.27	28.37	28.47	28.57
32	28.67	28.77	28.87	28.97	29.07	29.17	29.27	29.37	29.47	29.57
33	29.66	29.76	29.86	29.96	30.06	30.16	30.26	30.36	30.46	30.56
34	30.66	30.76	30.86	30.96	31.05	31.15	31.25	31.35	31.45	31.55
35	31.65	31.75	31.85	31.95	32.05	32.15	32.25	32.35	32.45	32.55
36	32.64	32.74	32.84	32.94	33.04	33.14	33.24	33.34	33.44	33.54
37	33.64	33.74	33.84	33.94	34.04	34.14	34.24	34.33	34.43	34.53
38	34.63	34.73	34.83	34.93	35.03	35.13	35.23	35.33	35.43	35.53
39	35.63	35.73	35.83	35.93	36.03	36.13	36.22	36.32	36.42	36.52
40	36.62	36.72	36.82	36.92	37.02	37.12	37.22	37.32	37.42	37.52

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0							0.00	0.01	0.02	0.04
1	0.06	0.09	0.12	0.15	0.19	0.23	0.28	0.33	0.38	0.43
2	0.48	0.54	0.60	0.66	0.72	0.79	0.85	0.92	0.99	1.06
3	1.13	1.20	1.27	1.35	1.42	1.50	1.57	1.65	1.73	1.81
4	1.89	1.97	2.05	2.13	2.21	2.29	2.38	2.46	2.54	2.63
5	2.71	2.80	2.88	2.97	3.05	3.14	3.23	3.32	3.40	3.49
6	3.58	3.67	3.76	3.85	3.93	4.02	4.11	4.20	4.29	4.38
7	4.48	4.57	4.66	4.75	4.84	4.93	5.02	5.11	5.21	5.30
8	5.39	5.48	5.58	5.67	5.76	5.86	5.95	6.04	6.14	6.23
9	6.32	6.42	6.51	6.60	6.70	6.79	6.89	6.98	7.08	7.17
10	7.26	7.36	7.45	7.55	7.64	7.74	7.83	7.93	8.03	8.12
11	8.22	8.31	8.41	8.50	8.60	8.69	8.79	8.89	8.98	9.08
12	9.17	9.27	9.37	9.46	9.56	9.65	9.75	9.85	9.94	10.04
13	10.14	10.23	10.33	10.43	10.52	10.62	10.72	10.81	10.91	11.01
14	11.11	11.20	11.30	11.40	11.49	11.59	11.69	11.78	11.88	11.98
15	12.08	12.17	12.27	12.37	12.47	12.56	12.66	12.76	12.86	12.95
16	13.05	13.15	13.25	13.34	13.44	13.54	13.64	13.74	13.83	13.93
17	14.03	14.13	14.22	14.32	14.42	14.52	14.62	14.71	14.81	14.91
18	15.01	15.11	15.20	15.30	15.40	15.50	15.60	15.70	15.79	15.89
19	15.99	16.09	16.19	16.28	16.38	16.48	16.58	16.68	16.78	16.87
20	16.97	17.07	17.17	17.27	17.37	17.47	17.56	17.66	17.76	17.86

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	17.96	18.06	18.16	18.25	18.35	18.45	18.55	18.65	18.75	18.85
22	18.94	19.04	19.14	19.24	19.34	19.44	19.54	19.63	19.73	19.83
23	19.93	20.03	20.13	20.23	20.33	20.42	20.52	20.62	20.72	20.82
24	20.92	21.02	21.12	21.22	21.31	21.41	21.51	21.61	21.71	21.81
25	21.91	22.01	22.11	22.20	22.30	22.40	22.50	22.60	22.70	22.80
26	22.90	23.00	23.10	23.19	23.29	23.39	23.49	23.59	23.69	23.79
27	23.89	23.99	24.09	24.19	24.28	24.38	24.48	24.58	24.68	24.78
28	24.88	24.98	25.08	25.18	25.28	25.37	25.47	25.57	25.67	25.77
29	25.87	25.97	26.07	26.17	26.27	26.37	26.47	26.56	26.66	26.76
30	26.86	26.96	27.06	27.16	27.26	27.36	27.46	27.56	27.66	27.76
31	27.86	27.95	28.05	28.15	28.25	28.35	28.45	28.55	28.65	28.75
32	28.85	28.95	29.05	29.15	29.25	29.34	29.44	29.54	29.64	29.74
33	29.84	29.94	30.04	30.14	30.24	30.34	30.44	30.54	30.64	30.74
34	30.84	30.93	31.03	31.13	31.23	31.33	31.43	31.53	31.63	31.73
35	31.83	31.93	32.03	32.13	32.23	32.33	32.43	32.53	32.62	32.72
36	32.82	32.92	33.02	33.12	33.22	33.32	33.42	33.52	33.62	33.72
37	33.82	33.92	34.02	34.12	34.22	34.32	34.42	34.51	34.61	34.71
38	34.81	34.91	35.01	35.11	35.21	35.31	35.41	35.51	35.61	35.71
39	35.81	35.91	36.01	36.11	36.21	36.31	36.41	36.51	36.61	36.70
40	36.80	36.90	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0							0.00	0.01	0.02	0.04
1	0.07	0.10	0.13	0.17	0.21	0.26	0.31	0.36	0.41	0.46
2	0.52	0.58	0.64	0.71	0.77	0.84	0.90	0.97	1.04	1.12
3	1.19	1.26	1.34	1.41	1.49	1.57	1.64	1.72	1.80	1.88
4	1.96	2.04	2.13	2.21	2.29	2.38	2.46	2.54	2.63	2.71
5	2.80	2.89	2.97	3.06	3.15	3.24	3.32	3.41	3.50	3.59
6	3.68	3.77	3.86	3.95	4.04	4.13	4.22	4.31	4.40	4.49
7	4.58	4.67	4.77	4.86	4.95	5.04	5.14	5.23	5.32	5.41
8	5.51	5.60	5.69	5.79	5.88	5.97	6.07	6.16	6.26	6.35
9	6.44	6.54	6.63	6.73	6.82	6.92	7.01	7.11	7.20	7.30
10	7.39	7.49	7.58	7.68	7.77	7.87	7.96	8.06	8.16	8.25
11	8.35	8.44	8.54	8.63	8.73	8.83	8.92	9.02	9.12	9.21
12	9.31	9.41	9.50	9.60	9.70	9.79	9.89	9.99	10.08	10.18
13	10.28	10.37	10.47	10.57	10.66	10.76	10.86	10.96	11.05	11.15
14	11.25	11.34	11.44	11.54	11.64	11.73	11.83	11.93	12.03	12.12
15	12.22	12.32	12.42	12.51	12.61	12.71	12.81	12.90	13.00	13.10
16	13.20	13.30	13.39	13.49	13.59	13.69	13.79	13.88	13.98	14.08
17	14.18	14.28	14.37	14.47	14.57	14.67	14.77	14.86	14.96	15.06
18	15.16	15.26	15.36	15.45	15.55	15.65	15.75	15.85	15.95	16.04
19	16.14	16.24	16.34	16.44	16.54	16.64	16.73	16.83	16.93	17.03
20	17.13	17.23	17.32	17.42	17.52	17.62	17.72	17.82	17.92	18.02

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	18.11	18.21	18.31	18.41	18.51	18.61	18.71	18.80	18.90	19.00
22	19.10	19.20	19.30	19.40	19.50	19.60	19.69	19.79	19.89	19.99
23	20.09	20.19	20.29	20.39	20.49	20.58	20.68	20.78	20.88	20.98
24	21.08	21.18	21.28	21.38	21.47	21.57	21.67	21.77	21.87	21.97
25	22.07	22.17	22.27	22.37	22.47	22.56	22.66	22.76	22.86	22.96
26	23.06	23.16	23.26	23.36	23.46	23.56	23.65	23.75	23.85	23.95
27	24.05	24.15	24.25	24.35	24.45	24.55	24.65	24.75	24.84	24.94
28	25.04	25.14	25.24	25.34	25.44	25.54	25.64	25.74	25.84	25.94
29	26.04	26.13	26.23	26.33	26.43	26.53	26.63	26.73	26.83	26.93
30	27.03	27.13	27.23	27.33	27.43	27.52	27.62	27.72	27.82	27.92
31	28.02	28.12	28.22	28.32	28.42	28.52	28.62	28.72	28.82	28.92
32	29.02	29.11	29.21	29.31	29.41	29.51	29.61	29.71	29.81	29.91
33	30.01	30.11	30.21	30.31	30.41	30.51	30.61	30.71	30.80	30.90
34	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90
35	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.79	32.89
36	32.99	33.09	33.19	33.29	33.39	33.49	33.59	33.69	33.79	33.89
37	33.99	34.09	34.19	34.29	34.39	34.49	34.59	34.69	34.79	34.88
38	34.98	35.08	35.18	35.28	35.38	35.48	35.58	35.68	35.78	35.88
39	35.98	36.08	36.18	36.28	36.38	36.48	36.58	36.68	36.78	36.88
40	36.98	37.08	37.18	37.27	37.37	37.47	37.57	37.67	37.77	37.87

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0							0.00	0.01	0.03	0.06
1	0.08	0.12	0.15	0.19	0.24	0.29	0.34	0.39	0.44	0.50
2	0.56	0.62	0.69	0.75	0.82	0.89	0.96	1.03	1.10	1.18
3	1.25	1.33	1.40	1.48	1.56	1.64	1.72	1.80	1.88	1.96
4	2.04	2.12	2.21	2.29	2.38	2.46	2.55	2.63	2.72	2.81
5	2.89	2.98	3.07	3.16	3.24	3.33	3.42	3.51	3.60	3.69
6	3.78	3.87	3.96	4.05	4.14	4.24	4.33	4.42	4.51	4.60
7	4.69	4.79	4.88	4.97	5.06	5.16	5.25	5.34	5.44	5.53
8	5.62	5.72	5.81	5.91	6.00	6.10	6.19	6.28	6.38	6.47
9	6.57	6.66	6.76	6.85	6.95	7.04	7.14	7.23	7.33	7.43
10	7.52	7.62	7.71	7.81	7.90	8.00	8.10	8.19	8.29	8.38
11	8.48	8.58	8.67	8.77	8.87	8.96	9.06	9.16	9.25	9.35
12	9.45	9.54	9.64	9.74	9.83	9.93	10.03	10.13	10.22	10.32
13	10.42	10.51	10.61	10.71	10.81	10.90	11.00	11.10	11.20	11.29
14	11.39	11.49	11.59	11.68	11.78	11.88	11.98	12.07	12.17	12.27
15	12.37	12.47	12.56	12.66	12.76	12.86	12.96	13.05	13.15	13.25
16	13.35	13.45	13.54	13.64	13.74	13.84	13.94	14.03	14.13	14.23
17	14.33	14.43	14.53	14.62	14.72	14.82	14.92	15.02	15.12	15.21
18	15.31	15.41	15.51	15.61	15.71	15.80	15.90	16.00	16.10	16.20
19	16.30	16.40	16.49	16.59	16.69	16.79	16.89	16.99	17.09	17.19
20	17.28	17.38	17.48	17.58	17.68	17.78	17.88	17.98	18.07	18.17

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	18.27	18.37	18.47	18.57	18.67	18.77	18.86	18.96	19.06	19.16
22	19.26	19.36	19.46	19.56	19.66	19.76	19.85	19.95	20.05	20.15
23	20.25	20.35	20.45	20.55	20.65	20.75	20.84	20.94	21.04	21.14
24	21.24	21.34	21.44	21.54	21.64	21.74	21.83	21.93	22.03	22.13
25	22.23	22.33	22.43	22.53	22.63	22.73	22.83	22.93	23.02	23.12
26	23.22	23.32	23.42	23.52	23.62	23.72	23.82	23.92	24.02	24.12
27	24.22	24.31	24.41	24.51	24.61	24.71	24.81	24.91	25.01	25.11
28	25.21	25.31	25.41	25.51	25.61	25.70	25.80	25.90	26.00	26.10
29	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	27.00	27.10
30	27.20	27.29	27.39	27.49	27.59	27.69	27.79	27.89	27.99	28.09
31	28.19	28.29	28.39	28.49	28.59	28.69	28.79	28.89	28.98	29.08
32	29.18	29.28	29.38	29.48	29.58	29.68	29.78	29.88	29.98	30.08
33	30.18	30.28	30.38	30.48	30.58	30.68	30.78	30.88	30.97	31.07
34	31.17	31.27	31.37	31.47	31.57	31.67	31.77	31.87	31.97	32.07
35	32.17	32.27	32.37	32.47	32.57	32.67	32.77	32.87	32.97	33.06
36	33.16	33.26	33.36	33.46	33.56	33.66	33.76	33.86	33.96	34.06
37	34.16	34.26	34.36	34.46	34.56	34.66	34.76	34.86	34.96	35.06
38	35.16	35.26	35.36	35.46	35.55	35.65	35.75	35.85	35.95	36.05
39	36.15	36.25	36.35	36.45	36.55	36.65	36.75	36.85	36.95	37.05
40	37.15	37.25	37.35	37.45	37.55	37.65	37.75	37.85	37.95	38.05

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0						0.00	0.01	0.02	0.04	0.07
1	0.10	0.13	0.17	0.22	0.27	0.32	0.37	0.42	0.48	0.54
2	0.61	0.67	0.74	0.80	0.87	0.94	1.02	1.09	1.16	1.24
3	1.32	1.39	1.47	1.55	1.63	1.71	1.79	1.87	1.96	2.04
4	2.12	2.21	2.29	2.38	2.47	2.55	2.64	2.73	2.81	2.90
5	2.99	3.08	3.17	3.26	3.34	3.43	3.52	3.62	3.71	3.80
6	3.89	3.98	4.07	4.16	4.25	4.35	4.44	4.53	4.62	4.72
7	4.81	4.90	5.00	5.09	5.18	5.28	5.37	5.46	5.56	5.65
8	5.75	5.84	5.94	6.03	6.13	6.22	6.31	6.41	6.51	6.60
9	6.70	6.79	6.89	6.98	7.08	7.17	7.27	7.37	7.46	7.56
10	7.65	7.75	7.85	7.94	8.04	8.13	8.23	8.33	8.42	8.52
11	8.62	8.71	8.81	8.91	9.00	9.10	9.20	9.30	9.39	9.49
12	9.59	9.68	9.78	9.88	9.98	10.07	10.17	10.27	10.37	10.46
13	10.56	10.66	10.76	10.85	10.95	11.05	11.15	11.24	11.34	11.44
14	11.54	11.63	11.73	11.83	11.93	12.03	12.12	12.22	12.32	12.42
15	12.52	12.61	12.71	12.81	12.91	13.01	13.11	13.20	13.30	13.40
16	13.50	13.60	13.69	13.79	13.89	13.99	14.09	14.19	14.29	14.38
17	14.48	14.58	14.68	14.78	14.88	14.97	15.07	15.17	15.27	15.37
18	15.47	15.57	15.66	15.76	15.86	15.96	16.06	16.16	16.26	16.36
19	16.45	16.55	16.65	16.75	16.85	16.95	17.05	17.15	17.24	17.34
20	17.44	17.54	17.64	17.74	17.84	17.94	18.04	18.13	18.23	18.33

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	18.43	18.53	18.63	18.73	18.83	18.93	19.03	19.12	19.22	19.32
22	19.42	19.52	19.62	19.72	19.82	19.92	20.02	20.11	20.21	20.31
23	20.41	20.51	20.61	20.71	20.81	20.91	21.01	21.11	21.21	21.30
24	21.40	21.50	21.60	21.70	21.80	21.90	22.00	22.10	22.20	22.30
25	22.40	22.49	22.59	22.69	22.79	22.89	22.99	23.09	23.19	23.29
26	23.39	23.49	23.59	23.69	23.79	23.88	23.98	24.08	24.18	24.28
27	24.38	24.48	24.58	24.68	24.78	24.88	24.98	25.08	25.18	25.28
28	25.38	25.47	25.57	25.67	25.77	25.87	25.97	26.07	26.17	26.27
29	26.37	26.47	26.57	26.67	26.77	26.87	26.97	27.07	27.16	27.26
30	27.36	27.46	27.56	27.66	27.76	27.86	27.96	28.06	28.16	28.26
31	28.36	28.46	28.56	28.66	28.76	28.86	28.96	29.06	29.15	29.25
32	29.35	29.45	29.55	29.65	29.75	29.85	29.95	30.05	30.15	30.25
33	30.35	30.45	30.55	30.65	30.75	30.85	30.95	31.05	31.15	31.25
34	31.34	31.44	31.54	31.64	31.74	31.84	31.94	32.04	32.14	32.24
35	32.34	32.44	32.54	32.64	32.74	32.84	32.94	33.04	33.14	33.24
36	33.34	33.44	33.54	33.64	33.74	33.83	33.93	34.03	34.13	34.23
37	34.33	34.43	34.53	34.63	34.73	34.83	34.93	35.03	35.13	35.23
38	35.33	35.43	35.53	35.63	35.73	35.83	35.93	36.03	36.13	36.23
39	36.33	36.43	36.53	36.62	36.72	36.82	36.92	37.02	37.12	37.22
40	37.32	37.42	37.52	37.62	37.72	37.82	37.92	38.02	38.12	38.22

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0						0.00	0.01	0.03	0.05	0.08
1	0.11	0.15	0.20	0.24	0.29	0.34	0.40	0.46	0.52	0.58
2	0.65	0.71	0.78	0.85	0.92	1.00	1.07	1.15	1.22	1.30
3	1.38	1.46	1.54	1.62	1.70	1.78	1.86	1.95	2.03	2.12
4	2.20	2.29	2.37	2.46	2.55	2.63	2.72	2.81	2.90	2.99
5	3.08	3.17	3.26	3.35	3.44	3.53	3.62	3.71	3.80	3.89
6	3.98	4.08	4.17	4.26	4.35	4.45	4.54	4.63	4.73	4.82
7	4.91	5.01	5.10	5.19	5.29	5.38	5.48	5.57	5.67	5.76
8	5.86	5.95	6.05	6.14	6.24	6.33	6.43	6.52	6.62	6.71
9	6.81	6.91	7.00	7.10	7.19	7.29	7.39	7.48	7.58	7.68
10	7.77	7.87	7.96	8.06	8.16	8.25	8.35	8.45	8.55	8.64
11	8.74	8.84	8.93	9.03	9.13	9.23	9.32	9.42	9.52	9.61
12	9.71	9.81	9.91	10.00	10.10	10.20	10.30	10.39	10.49	10.59
13	10.69	10.79	10.88	10.98	11.08	11.18	11.28	11.37	11.47	11.57
14	11.67	11.77	11.86	11.96	12.06	12.16	12.26	12.35	12.45	12.55
15	12.65	12.75	12.85	12.94	13.04	13.14	13.24	13.34	13.44	13.53
16	13.63	13.73	13.83	13.93	14.03	14.13	14.22	14.32	14.42	14.52
17	14.62	14.72	14.82	14.91	15.01	15.11	15.21	15.31	15.41	15.51
18	15.60	15.70	15.80	15.90	16.00	16.10	16.20	16.30	16.40	16.49
19	16.59	16.69	16.79	16.89	16.99	17.09	17.19	17.29	17.38	17.48
20	17.58	17.68	17.78	17.88	17.98	18.08	18.18	18.28	18.37	18.47

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	18.57	18.67	18.77	18.87	18.97	19.07	19.17	19.27	19.37	19.46
22	19.56	19.66	19.76	19.86	19.96	20.06	20.16	20.26	20.36	20.46
23	20.56	20.65	20.75	20.85	20.95	21.05	21.15	21.25	21.35	21.45
24	21.55	21.65	21.75	21.85	21.94	22.04	22.14	22.24	22.34	22.44
25	22.54	22.64	22.74	22.84	22.94	23.04	23.14	23.24	23.34	23.43
26	23.53	23.63	23.73	23.83	23.93	24.03	24.13	24.23	24.33	24.43
27	24.53	24.63	24.73	24.83	24.93	25.03	25.12	25.22	25.32	25.42
28	25.52	25.62	25.72	25.82	25.92	26.02	26.12	26.22	26.32	26.42
29	26.52	26.62	26.72	26.82	26.92	27.01	27.11	27.21	27.31	27.41
30	27.51	27.61	27.71	27.81	27.91	28.01	28.11	28.21	28.31	28.41
31	28.51	28.61	28.71	28.81	28.91	29.01	29.11	29.20	29.30	29.40
32	29.50	29.60	29.70	29.80	29.90	30.00	30.10	30.20	30.30	30.40
33	30.50	30.60	30.70	30.80	30.90	31.00	31.10	31.20	31.30	31.40
34	31.50	31.59	31.69	31.79	31.89	31.99	32.09	32.19	32.29	32.39
35	32.49	32.59	32.69	32.79	32.89	32.99	33.09	33.19	33.29	33.39
36	33.49	33.59	33.69	33.79	33.89	33.99	34.09	34.19	34.29	34.39
37	34.48	34.58	34.68	34.78	34.88	34.98	35.08	35.18	35.28	35.38
38	35.48	35.58	35.68	35.78	35.88	35.98	36.08	36.18	36.28	36.38
39	36.48	36.58	36.68	36.78	36.88	36.98	37.08	37.18	37.28	37.38
40	37.48	37.58	37.68	37.78	37.87	37.97	38.07	38.17	38.27	38.37

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2 S)^2}{P+0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0						0.00	0.02	0.04	0.06	0.09
1	0.13	0.17	0.22	0.27	0.32	0.38	0.44	0.50	0.56	0.63
2	0.69	0.76	0.83	0.91	0.98	1.06	1.13	1.21	1.29	1.37
3	1.45	1.53	1.61	1.69	1.77	1.86	1.94	2.03	2.11	2.20
4	2.29	2.37	2.46	2.55	2.64	2.72	2.81	2.90	2.99	3.08
5	3.17	3.26	3.35	3.45	3.54	3.63	3.72	3.81	3.90	4.00
6	4.09	4.18	4.28	4.37	4.46	4.56	4.65	4.74	4.84	4.93
7	5.03	5.12	5.22	5.31	5.40	5.50	5.59	5.69	5.79	5.88
8	5.98	6.07	6.17	6.26	6.36	6.45	6.55	6.65	6.74	6.84
9	6.93	7.03	7.13	7.22	7.32	7.42	7.51	7.61	7.71	7.80
10	7.90	8.00	8.09	8.19	8.29	8.39	8.48	8.58	8.68	8.78
11	8.87	8.97	9.07	9.16	9.26	9.36	9.46	9.56	9.65	9.75
12	9.85	9.95	10.04	10.14	10.24	10.34	10.44	10.53	10.63	10.73
13	10.83	10.93	11.02	11.12	11.22	11.32	11.42	11.51	11.61	11.71
14	11.81	11.91	12.01	12.10	12.20	12.30	12.40	12.50	12.60	12.69
15	12.79	12.89	12.99	13.09	13.19	13.29	13.38	13.48	13.58	13.68
16	13.78	13.88	13.98	14.07	14.17	14.27	14.37	14.47	14.57	14.67
17	14.77	14.86	14.96	15.06	15.16	15.26	15.36	15.46	15.56	15.66
18	15.75	15.85	15.95	16.05	16.15	16.25	16.35	16.45	16.55	16.64
19	16.74	16.84	16.94	17.04	17.14	17.24	17.34	17.44	17.54	17.64
20	17.73	17.83	17.93	18.03	18.13	18.23	18.33	18.43	18.53	18.63

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	18.73	18.82	18.92	19.02	19.12	19.22	19.32	19.42	19.52	19.62
22	19.72	19.82	19.92	20.02	20.11	20.21	20.31	20.41	20.51	20.61
23	20.71	20.81	20.91	21.01	21.11	21.21	21.31	21.41	21.51	21.60
24	21.70	21.80	21.90	22.00	22.10	22.20	22.30	22.40	22.50	22.60
25	22.70	22.80	22.90	23.00	23.10	23.19	23.29	23.39	23.49	23.59
26	23.69	23.79	23.89	23.99	24.09	24.19	24.29	24.39	24.49	24.59
27	24.69	24.79	24.89	24.99	25.08	25.18	25.28	25.38	25.48	25.58
28	25.68	25.78	25.88	25.98	26.08	26.18	26.28	26.38	26.48	26.58
29	26.68	26.78	26.88	26.98	27.08	27.17	27.27	27.37	27.47	27.57
30	27.67	27.77	27.87	27.97	28.07	28.17	28.27	28.37	28.47	28.57
31	28.67	28.77	28.87	28.97	29.07	29.17	29.27	29.37	29.47	29.57
32	29.66	29.76	29.86	29.96	30.06	30.16	30.26	30.36	30.46	30.56
33	30.66	30.76	30.86	30.96	31.06	31.16	31.26	31.36	31.46	31.56
34	31.66	31.76	31.86	31.96	32.06	32.16	32.26	32.36	32.46	32.55
35	32.65	32.75	32.85	32.95	33.05	33.15	33.25	33.35	33.45	33.55
36	33.65	33.75	33.85	33.95	34.05	34.15	34.25	34.35	34.45	34.55
37	34.65	34.75	34.85	34.95	35.05	35.15	35.25	35.35	35.45	35.55
38	35.65	35.75	35.85	35.95	36.04	36.14	36.24	36.34	36.44	36.54
39	36.64	36.74	36.84	36.94	37.04	37.14	37.24	37.34	37.44	37.54
40	37.64	37.74	37.84	37.94	38.04	38.14	38.24	38.34	38.44	38.54

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0					0.00	0.01	0.02	0.05	0.08	0.11
1	0.15	0.20	0.25	0.30	0.36	0.42	0.48	0.54	0.61	0.68
2	0.75	0.82	0.89	0.97	1.04	1.12	1.20	1.28	1.36	1.44
3	1.52	1.60	1.68	1.77	1.85	1.94	2.03	2.11	2.20	2.29
4	2.37	2.46	2.55	2.64	2.73	2.82	2.91	3.00	3.09	3.18
5	3.27	3.37	3.46	3.55	3.64	3.73	3.83	3.92	4.01	4.11
6	4.20	4.29	4.39	4.48	4.58	4.67	4.76	4.86	4.95	5.05
7	5.14	5.24	5.33	5.43	5.52	5.62	5.72	5.81	5.91	6.00
8	6.10	6.20	6.29	6.39	6.48	6.58	6.68	6.77	6.87	6.97
9	7.06	7.16	7.26	7.35	7.45	7.55	7.64	7.74	7.84	7.94
10	8.03	8.13	8.23	8.33	8.42	8.52	8.62	8.72	8.81	8.91
11	9.01	9.11	9.20	9.30	9.40	9.50	9.60	9.69	9.79	9.89
12	9.99	10.09	10.18	10.28	10.38	10.48	10.58	10.67	10.77	10.87
13	10.97	11.07	11.17	11.26	11.36	11.46	11.56	11.66	11.76	11.85
14	11.95	12.05	12.15	12.25	12.35	12.45	12.54	12.64	12.74	12.84
15	12.94	13.04	13.14	13.23	13.33	13.43	13.53	13.63	13.73	13.83
16	13.93	14.02	14.12	14.22	14.32	14.42	14.52	14.62	14.72	14.82
17	14.91	15.01	15.11	15.21	15.31	15.41	15.51	15.61	15.71	15.81
18	15.90	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80
19	16.90	17.00	17.09	17.19	17.29	17.39	17.49	17.59	17.69	17.79
20	17.89	17.99	18.09	18.19	18.28	18.38	18.48	18.58	18.68	18.78

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	18.88	18.98	19.08	19.18	19.28	19.38	19.48	19.58	19.67	19.77
22	19.87	19.97	20.07	20.17	20.27	20.37	20.47	20.57	20.67	20.77
23	20.87	20.97	21.07	21.17	21.26	21.36	21.46	21.56	21.66	21.76
24	21.86	21.96	22.06	22.16	22.26	22.36	22.46	22.56	22.66	22.76
25	22.86	22.96	23.06	23.15	23.25	23.35	23.45	23.55	23.65	23.75
26	23.85	23.95	24.05	24.15	24.25	24.35	24.45	24.55	24.65	24.75
27	24.85	24.95	25.05	25.15	25.24	25.34	25.44	25.54	25.64	25.74
28	25.84	25.94	26.04	26.14	26.24	26.34	26.44	26.54	26.64	26.74
29	26.84	26.94	27.04	27.14	27.24	27.34	27.44	27.54	27.64	27.73
30	27.83	27.93	28.03	28.13	28.23	28.33	28.43	28.53	28.63	28.73
31	28.83	28.93	29.03	29.13	29.23	29.33	29.43	29.53	29.63	29.73
32	29.83	29.93	30.03	30.13	30.23	30.33	30.43	30.53	30.63	30.72
33	30.82	30.92	31.02	31.12	31.22	31.32	31.42	31.52	31.62	31.72
34	31.82	31.92	32.02	32.12	32.22	32.32	32.42	32.52	32.62	32.72
35	32.82	32.92	33.02	33.12	33.22	33.32	33.42	33.52	33.62	33.72
36	33.82	33.92	34.02	34.12	34.22	34.31	34.41	34.51	34.61	34.71
37	34.81	34.91	35.01	35.11	35.21	35.31	35.41	35.51	35.61	35.71
38	35.81	35.91	36.01	36.11	36.21	36.31	36.41	36.51	36.61	36.71
39	36.81	36.91	37.01	37.11	37.21	37.31	37.41	37.51	37.61	37.71
40	37.81	37.91	38.01	38.11	38.21	38.31	38.41	38.51	38.61	38.71

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0					0.00	0.01	0.03	0.06	0.09	0.13
1	0.17	0.22	0.28	0.33	0.39	0.45	0.52	0.58	0.65	0.72
2	0.80	0.87	0.95	1.02	1.10	1.18	1.26	1.34	1.42	1.51
3	1.59	1.68	1.76	1.85	1.93	2.02	2.11	2.19	2.28	2.37
4	2.46	2.55	2.64	2.73	2.82	2.91	3.00	3.10	3.19	3.28
5	3.37	3.46	3.56	3.65	3.74	3.84	3.93	4.02	4.12	4.21
6	4.31	4.40	4.50	4.59	4.68	4.78	4.87	4.97	5.07	5.16
7	5.26	5.35	5.45	5.54	5.64	5.74	5.83	5.93	6.02	6.12
8	6.22	6.31	6.41	6.51	6.60	6.70	6.80	6.89	6.99	7.09
9	7.19	7.28	7.38	7.48	7.57	7.67	7.77	7.87	7.96	8.06
10	8.16	8.26	8.35	8.45	8.55	8.65	8.75	8.84	8.94	9.04
11	9.14	9.24	9.33	9.43	9.53	9.63	9.73	9.82	9.92	10.02
12	10.12	10.22	10.32	10.41	10.51	10.61	10.71	10.81	10.91	11.00
13	11.10	11.20	11.30	11.40	11.50	11.60	11.69	11.79	11.89	11.99
14	12.09	12.19	12.29	12.39	12.48	12.58	12.68	12.78	12.88	12.98
15	13.08	13.18	13.27	13.37	13.47	13.57	13.67	13.77	13.87	13.97
16	14.07	14.16	14.26	14.36	14.46	14.56	14.66	14.76	14.86	14.96
17	15.06	15.16	15.25	15.35	15.45	15.55	15.65	15.75	15.85	15.95
18	16.05	16.15	16.25	16.35	16.44	16.54	16.64	16.74	16.84	16.94
19	17.04	17.14	17.24	17.34	17.44	17.54	17.64	17.73	17.83	17.93
20	18.03	18.13	18.23	18.33	18.43	18.53	18.63	18.73	18.83	18.93

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	19.03	19.13	19.22	19.32	19.42	19.52	19.62	19.72	19.82	19.92
22	20.02	20.12	20.22	20.32	20.42	20.52	20.62	20.72	20.82	20.92
23	21.01	21.11	21.21	21.31	21.41	21.51	21.61	21.71	21.81	21.91
24	22.01	22.11	22.21	22.31	22.41	22.51	22.61	22.71	22.81	22.91
25	23.01	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90
26	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90
27	25.00	25.10	25.20	25.30	25.40	25.50	25.59	25.69	25.79	25.89
28	25.99	26.09	26.19	26.29	26.39	26.49	26.59	26.69	26.79	26.89
29	26.99	27.09	27.19	27.29	27.39	27.49	27.59	27.69	27.79	27.89
30	27.99	28.09	28.19	28.29	28.39	28.49	28.58	28.68	28.78	28.88
31	28.98	29.08	29.18	29.28	29.38	29.48	29.58	29.68	29.78	29.88
32	29.98	30.08	30.18	30.28	30.38	30.48	30.58	30.68	30.78	30.88
33	30.98	31.08	31.18	31.28	31.38	31.48	31.58	31.68	31.78	31.88
34	31.98	32.08	32.17	32.27	32.37	32.47	32.57	32.67	32.77	32.87
35	32.97	33.07	33.17	33.27	33.37	33.47	33.57	33.67	33.77	33.87
36	33.97	34.07	34.17	34.27	34.37	34.47	34.57	34.67	34.77	34.87
37	34.97	35.07	35.17	35.27	35.37	35.47	35.57	35.67	35.77	35.87
38	35.97	36.07	36.17	36.27	36.37	36.47	36.57	36.67	36.77	36.86
39	36.96	37.06	37.16	37.26	37.36	37.46	37.56	37.66	37.76	37.86
40	37.96	38.06	38.16	38.26	38.36	38.46	38.56	38.66	38.76	38.86

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2 S)^2}{P+0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0					0.00	0.02	0.04	0.07	0.11	0.15
1	0.20	0.25	0.31	0.36	0.43	0.49	0.56	0.63	0.70	0.77
2	0.85	0.92	1.00	1.08	1.16	1.24	1.32	1.41	1.49	1.58
3	1.66	1.75	1.83	1.92	2.01	2.10	2.19	2.27	2.36	2.45
4	2.54	2.64	2.73	2.82	2.91	3.00	3.09	3.19	3.28	3.37
5	3.47	3.56	3.65	3.75	3.84	3.93	4.03	4.12	4.22	4.31
6	4.41	4.50	4.60	4.69	4.79	4.88	4.98	5.08	5.17	5.27
7	5.36	5.46	5.56	5.65	5.75	5.85	5.94	6.04	6.14	6.23
8	6.33	6.43	6.52	6.62	6.72	6.81	6.91	7.01	7.11	7.20
9	7.30	7.40	7.50	7.59	7.69	7.79	7.89	7.99	8.08	8.18
10	8.28	8.38	8.47	8.57	8.67	8.77	8.87	8.97	9.06	9.16
11	9.26	9.36	9.46	9.55	9.65	9.75	9.85	9.95	10.05	10.15
12	10.24	10.34	10.44	10.54	10.64	10.74	10.84	10.93	11.03	11.13
13	11.23	11.33	11.43	11.53	11.62	11.72	11.82	11.92	12.02	12.12
14	12.22	12.32	12.42	12.51	12.61	12.71	12.81	12.91	13.01	13.11
15	13.21	13.31	13.40	13.50	13.60	13.70	13.80	13.90	14.00	14.10
16	14.20	14.30	14.40	14.49	14.59	14.69	14.79	14.89	14.99	15.09
17	15.19	15.29	15.39	15.49	15.59	15.69	15.78	15.88	15.98	16.08
18	16.18	16.28	16.38	16.48	16.58	16.68	16.78	16.88	16.98	17.08
19	17.17	17.27	17.37	17.47	17.57	17.67	17.77	17.87	17.97	18.07
20	18.17	18.27	18.37	18.47	18.57	18.67	18.77	18.86	18.96	19.06

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	19.16	19.26	19.36	19.46	19.56	19.66	19.76	19.86	19.96	20.06
22	20.16	20.26	20.36	20.46	20.56	20.66	20.76	20.85	20.95	21.05
23	21.15	21.25	21.35	21.45	21.55	21.65	21.75	21.85	21.95	22.05
24	22.15	22.25	22.35	22.45	22.55	22.65	22.75	22.85	22.95	23.05
25	23.14	23.24	23.34	23.44	23.54	23.64	23.74	23.84	23.94	24.04
26	24.14	24.24	24.34	24.44	24.54	24.64	24.74	24.84	24.94	25.04
27	25.14	25.24	25.34	25.44	25.54	25.64	25.74	25.84	25.94	26.03
28	26.13	26.23	26.33	26.43	26.53	26.63	26.73	26.83	26.93	27.03
29	27.13	27.23	27.33	27.43	27.53	27.63	27.73	27.83	27.93	28.03
30	28.13	28.23	28.33	28.43	28.53	28.63	28.73	28.83	28.93	29.03
31	29.13	29.23	29.33	29.43	29.53	29.62	29.72	29.82	29.92	30.02
32	30.12	30.22	30.32	30.42	30.52	30.62	30.72	30.82	30.92	31.02
33	31.12	31.22	31.32	31.42	31.52	31.62	31.72	31.82	31.92	32.02
34	32.12	32.22	32.32	32.42	32.52	32.62	32.72	32.82	32.92	33.02
35	33.12	33.22	33.32	33.42	33.52	33.62	33.72	33.82	33.92	34.02
36	34.12	34.22	34.31	34.41	34.51	34.61	34.71	34.81	34.91	35.01
37	35.11	35.21	35.31	35.41	35.51	35.61	35.71	35.81	35.91	36.01
38	36.11	36.21	36.31	36.41	36.51	36.61	36.71	36.81	36.91	37.01
39	37.11	37.21	37.31	37.41	37.51	37.61	37.71	37.81	37.91	38.01
40	38.11	38.21	38.31	38.41	38.51	38.61	38.71	38.81	38.91	39.01

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0				0.00	0.01	0.02	0.05	0.09	0.13	0.17
1	0.22	0.28	0.34	0.40	0.47	0.54	0.61	0.68	0.75	0.83
2	0.91	0.99	1.07	1.15	1.23	1.31	1.40	1.48	1.57	1.65
3	1.74	1.83	1.92	2.01	2.10	2.19	2.28	2.37	2.46	2.55
4	2.64	2.73	2.82	2.92	3.01	3.10	3.20	3.29	3.38	3.48
5	3.57	3.66	3.76	3.85	3.95	4.04	4.14	4.23	4.33	4.43
6	4.52	4.62	4.71	4.81	4.90	5.00	5.10	5.19	5.29	5.39
7	5.48	5.58	5.68	5.77	5.87	5.97	6.06	6.16	6.26	6.36
8	6.45	6.55	6.65	6.75	6.84	6.94	7.04	7.14	7.23	7.33
9	7.43	7.53	7.63	7.72	7.82	7.92	8.02	8.12	8.21	8.31
10	8.41	8.51	8.61	8.71	8.80	8.90	9.00	9.10	9.20	9.30
11	9.39	9.49	9.59	9.69	9.79	9.89	9.99	10.08	10.18	10.28
12	10.38	10.48	10.58	10.68	10.78	10.87	10.97	11.07	11.17	11.27
13	11.37	11.47	11.57	11.67	11.76	11.86	11.96	12.06	12.16	12.26
14	12.36	12.46	12.56	12.66	12.75	12.85	12.95	13.05	13.15	13.25
15	13.35	13.45	13.55	13.65	13.75	13.84	13.94	14.04	14.14	14.24
16	14.34	14.44	14.54	14.64	14.74	14.84	14.94	15.04	15.14	15.23
17	15.33	15.43	15.53	15.63	15.73	15.83	15.93	16.03	16.13	16.23
18	16.33	16.43	16.53	16.63	16.73	16.82	16.92	17.02	17.12	17.22
19	17.32	17.42	17.52	17.62	17.72	17.82	17.92	18.02	18.12	18.22
20	18.32	18.42	18.52	18.62	18.71	18.81	18.91	19.01	19.11	19.21

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	19.31	19.41	19.51	19.61	19.71	19.81	19.91	20.01	20.11	20.21
22	20.31	20.41	20.51	20.61	20.71	20.81	20.91	21.00	21.10	21.20
23	21.30	21.40	21.50	21.60	21.70	21.80	21.90	22.00	22.10	22.20
24	22.30	22.40	22.50	22.60	22.70	22.80	22.90	23.00	23.10	23.20
25	23.30	23.40	23.50	23.60	23.70	23.80	23.89	23.99	24.09	24.19
26	24.29	24.39	24.49	24.59	24.69	24.79	24.89	24.99	25.09	25.19
27	25.29	25.39	25.49	25.59	25.69	25.79	25.89	25.99	26.09	26.19
28	26.29	26.39	26.49	26.59	26.69	26.79	26.89	26.99	27.09	27.19
29	27.29	27.39	27.49	27.58	27.68	27.78	27.88	27.98	28.08	28.18
30	28.28	28.38	28.48	28.58	28.68	28.78	28.88	28.98	29.08	29.18
31	29.28	29.38	29.48	29.58	29.68	29.78	29.88	29.98	30.08	30.18
32	30.28	30.38	30.48	30.58	30.68	30.78	30.88	30.98	31.08	31.18
33	31.28	31.38	31.48	31.58	31.68	31.78	31.88	31.98	32.08	32.18
34	32.28	32.37	32.47	32.57	32.67	32.77	32.87	32.97	33.07	33.17
35	33.27	33.37	33.47	33.57	33.67	33.77	33.87	33.97	34.07	34.17
36	34.27	34.37	34.47	34.57	34.67	34.77	34.87	34.97	35.07	35.17
37	35.27	35.37	35.47	35.57	35.67	35.77	35.87	35.97	36.07	36.17
38	36.27	36.37	36.47	36.57	36.67	36.77	36.87	36.97	37.07	37.17
39	37.27	37.37	37.47	37.57	37.67	37.77	37.87	37.97	38.07	38.17
40	38.27	38.37	38.47	38.57	38.67	38.77	38.87	38.96	39.06	39.16

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0				0.00	0.01	0.03	0.06	0.10	0.15	0.20
1	0.25	0.31	0.38	0.44	0.51	0.58	0.66	0.73	0.81	0.89
2	0.97	1.05	1.13	1.21	1.30	1.38	1.47	1.56	1.64	1.73
3	1.82	1.91	2.00	2.09	2.18	2.27	2.36	2.45	2.55	2.64
4	2.73	2.82	2.92	3.01	3.11	3.20	3.29	3.39	3.48	3.58
5	3.67	3.77	3.86	3.96	4.05	4.15	4.24	4.34	4.44	4.53
6	4.63	4.73	4.82	4.92	5.02	5.11	5.21	5.31	5.40	5.50
7	5.60	5.69	5.79	5.89	5.99	6.08	6.18	6.28	6.38	6.47
8	6.57	6.67	6.77	6.87	6.96	7.06	7.16	7.26	7.36	7.45
9	7.55	7.65	7.75	7.85	7.94	8.04	8.14	8.24	8.34	8.44
10	8.53	8.63	8.73	8.83	8.93	9.03	9.13	9.22	9.32	9.42
11	9.52	9.62	9.72	9.82	9.92	10.01	10.11	10.21	10.31	10.41
12	10.51	10.61	10.71	10.81	10.91	11.00	11.10	11.20	11.30	11.40
13	11.50	11.60	11.70	11.80	11.90	11.99	12.09	12.19	12.29	12.39
14	12.49	12.59	12.69	12.79	12.89	12.99	13.09	13.19	13.28	13.38
15	13.48	13.58	13.68	13.78	13.88	13.98	14.08	14.18	14.28	14.38
16	14.48	14.58	14.67	14.77	14.87	14.97	15.07	15.17	15.27	15.37
17	15.47	15.57	15.67	15.77	15.87	15.97	16.07	16.17	16.27	16.37
18	16.46	16.56	16.66	16.76	16.86	16.96	17.06	17.16	17.26	17.36
19	17.46	17.56	17.66	17.76	17.86	17.96	18.06	18.16	18.26	18.36
20	18.46	18.56	18.65	18.75	18.85	18.95	19.05	19.15	19.25	19.35

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	19.45	19.55	19.65	19.75	19.85	19.95	20.05	20.15	20.25	20.35
22	20.45	20.55	20.65	20.75	20.85	20.95	21.05	21.15	21.25	21.35
23	21.44	21.54	21.64	21.74	21.84	21.94	22.04	22.14	22.24	22.34
24	22.44	22.54	22.64	22.74	22.84	22.94	23.04	23.14	23.24	23.34
25	23.44	23.54	23.64	23.74	23.84	23.94	24.04	24.14	24.24	24.34
26	24.44	24.54	24.64	24.74	24.84	24.94	25.03	25.13	25.23	25.33
27	25.43	25.53	25.63	25.73	25.83	25.93	26.03	26.13	26.23	26.33
28	26.43	26.53	26.63	26.73	26.83	26.93	27.03	27.13	27.23	27.33
29	27.43	27.53	27.63	27.73	27.83	27.93	28.03	28.13	28.23	28.33
30	28.43	28.53	28.63	28.73	28.83	28.93	29.03	29.13	29.23	29.33
31	29.43	29.53	29.63	29.73	29.82	29.92	30.02	30.12	30.22	30.32
32	30.42	30.52	30.62	30.72	30.82	30.92	31.02	31.12	31.22	31.32
33	31.42	31.52	31.62	31.72	31.82	31.92	32.02	32.12	32.22	32.32
34	32.42	32.52	32.62	32.72	32.82	32.92	33.02	33.12	33.22	33.32
35	33.42	33.52	33.62	33.72	33.82	33.92	34.02	34.12	34.22	34.32
36	34.42	34.52	34.62	34.72	34.82	34.92	35.02	35.12	35.22	35.32
37	35.42	35.52	35.62	35.72	35.82	35.92	36.02	36.12	36.22	36.32
38	36.42	36.52	36.62	36.71	36.81	36.91	37.01	37.11	37.21	37.31
39	37.41	37.51	37.61	37.71	37.81	37.91	38.01	38.11	38.21	38.31
40	38.41	38.51	38.61	38.71	38.81	38.91	39.01	39.11	39.21	39.31

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

# RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0				0.00	0.02	0.04	0.08	0.12	0.17	0.22
1	0.28	0.35	0.41	0.48	0.55	0.63	0.71	0.78	0.86	0.94
2	1.03	1.11	1.19	1.28	1.37	1.45	1.54	1.63	1.72	1.81
3	1.90	1.99	2.08	2.17	2.26	2.35	2.45	2.54	2.63	2.73
4	2.82	2.91	3.01	3.10	3.20	3.29	3.39	3.48	3.58	3.67
5	3.77	3.86	3.96	4.06	4.15	4.25	4.35	4.44	4.54	4.64
6	4.73	4.83	4.93	5.02	5.12	5.22	5.31	5.41	5.51	5.61
7	5.70	5.80	5.90	6.00	6.10	6.19	6.29	6.39	6.49	6.58
8	6.68	6.78	6.88	6.98	7.08	7.17	7.27	7.37	7.47	7.57
9	7.67	7.76	7.86	7.96	8.06	8.16	8.26	8.36	8.45	8.55
10	8.65	8.75	8.85	8.95	9.05	9.15	9.24	9.34	9.44	9.54
11	9.64	9.74	9.84	9.94	10.04	10.14	10.23	10.33	10.43	10.53
12	10.63	10.73	10.83	10.93	11.03	11.13	11.23	11.32	11.42	11.52
13	11.62	11.72	11.82	11.92	12.02	12.12	12.22	12.32	12.42	12.52
14	12.61	12.71	12.81	12.91	13.01	13.11	13.21	13.31	13.41	13.51
15	13.61	13.71	13.81	13.91	14.01	14.11	14.20	14.30	14.40	14.50
16	14.60	14.70	14.80	14.90	15.00	15.10	15.20	15.30	15.40	15.50
17	15.60	15.70	15.80	15.90	16.00	16.10	16.19	16.29	16.39	16.49
18	16.59	16.69	16.79	16.89	16.99	17.09	17.19	17.29	17.39	17.49
19	17.59	17.69	17.79	17.89	17.99	18.09	18.19	18.29	18.39	18.49
20	18.59	18.68	18.78	18.88	18.98	19.08	19.18	19.28	19.38	19.48

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	19.58	19.68	19.78	19.88	19.98	20.08	20.18	20.28	20.38	20.48
22	20.58	20.68	20.78	20.88	20.98	21.08	21.18	21.28	21.38	21.48
23	21.58	21.68	21.78	21.88	21.98	22.07	22.17	22.27	22.37	22.47
24	22.57	22.67	22.77	22.87	22.97	23.07	23.17	23.27	23.37	23.47
25	23.57	23.67	23.77	23.87	23.97	24.07	24.17	24.27	24.37	24.47
26	24.57	24.67	24.77	24.87	24.97	25.07	25.17	25.27	25.37	25.47
27	25.57	25.67	25.77	25.87	25.97	26.07	26.17	26.27	26.37	26.47
28	26.57	26.66	26.76	26.86	26.96	27.06	27.16	27.26	27.36	27.46
29	27.56	27.66	27.76	27.86	27.96	28.06	28.16	28.26	28.36	28.46
30	28.56	28.66	28.76	28.86	28.96	29.06	29.16	29.26	29.36	29.46
31	29.56	29.66	29.76	29.86	29.96	30.06	30.16	30.26	30.36	30.46
32	30.56	30.66	30.76	30.86	30.96	31.06	31.16	31.26	31.36	31.46
33	31.56	31.66	31.76	31.86	31.96	32.06	32.16	32.26	32.36	32.46
34	32.56	32.66	32.76	32.86	32.96	33.06	33.16	33.26	33.35	33.45
35	33.55	33.65	33.75	33.85	33.95	34.05	34.15	34.25	34.35	34.45
36	34.55	34.65	34.75	34.85	34.95	35.05	35.15	35.25	35.35	35.45
37	35.55	35.65	35.75	35.85	35.95	36.05	36.15	36.25	36.35	36.45
38	36.55	36.65	36.75	36.85	36.95	37.05	37.15	37.25	37.35	37.45
39	37.55	37.65	37.75	37.85	37.95	38.05	38.15	38.25	38.35	38.45
40	38.55	38.65	38.75	38.85	38.95	39.05	39.15	39.25	39.35	39.45

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0				0.01	0.02	0.06	0.10	0.14	0.20	0.26
1	0.32	0.39	0.46	0.53	0.61	0.68	0.76	0.84	0.93	1.01
2	1.09	1.18	1.27	1.35	1.44	1.53	1.62	1.71	1.80	1.89
3	1.98	2.08	2.17	2.26	2.36	2.45	2.54	2.64	2.73	2.83
4	2.92	3.02	3.11	3.21	3.30	3.40	3.49	3.59	3.68	3.78
5	3.88	3.97	4.07	4.17	4.26	4.36	4.46	4.56	4.65	4.75
6	4.85	4.94	5.04	5.14	5.24	5.33	5.43	5.53	5.63	5.73
7	5.82	5.92	6.02	6.12	6.22	6.31	6.41	6.51	6.61	6.71
8	6.81	6.91	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.69
9	7.79	7.89	7.99	8.09	8.19	8.29	8.39	8.48	8.58	8.68
10	8.78	8.88	8.98	9.08	9.18	9.28	9.38	9.47	9.57	9.67
11	9.77	9.87	9.97	10.07	10.17	10.27	10.37	10.47	10.57	10.66
12	10.76	10.86	10.96	11.06	11.16	11.26	11.36	11.46	11.56	11.66
13	11.76	11.86	11.96	12.05	12.15	12.25	12.35	12.45	12.55	12.65
14	12.75	12.85	12.95	13.05	13.15	13.25	13.35	13.45	13.55	13.65
15	13.75	13.85	13.94	14.04	14.14	14.24	14.34	14.44	14.54	14.64
16	14.74	14.84	14.94	15.04	15.14	15.24	15.34	15.44	15.54	15.64
17	15.74	15.84	15.94	16.04	16.14	16.23	16.33	16.43	16.53	16.63
18	16.73	16.83	16.93	17.03	17.13	17.23	17.33	17.43	17.53	17.63
19	17.73	17.83	17.93	18.03	18.13	18.23	18.33	18.43	18.53	18.63
20	18.73	18.83	18.93	19.03	19.13	19.23	19.33	19.43	19.52	19.62

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	19.72	19.82	19.92	20.02	20.12	20.22	20.32	20.42	20.52	20.62
22	20.72	20.82	20.92	21.02	21.12	21.22	21.32	21.42	21.52	21.62
23	21.72	21.82	21.92	22.02	22.12	22.22	22.32	22.42	22.52	22.62
24	22.72	22.82	22.92	23.02	23.12	23.22	23.32	23.42	23.52	23.62
25	23.72	23.82	23.92	24.02	24.11	24.21	24.31	24.41	24.51	24.61
26	24.71	24.81	24.91	25.01	25.11	25.21	25.31	25.41	25.51	25.61
27	25.71	25.81	25.91	26.01	26.11	26.21	26.31	26.41	26.51	26.61
28	26.71	26.81	26.91	27.01	27.11	27.21	27.31	27.41	27.51	27.61
29	27.71	27.81	27.91	28.01	28.11	28.21	28.31	28.41	28.51	28.61
30	28.71	28.81	28.91	29.01	29.11	29.21	29.31	29.41	29.51	29.61
31	29.71	29.81	29.91	30.01	30.11	30.21	30.31	30.41	30.51	30.61
32	30.71	30.81	30.91	31.01	31.10	31.20	31.30	31.40	31.50	31.60
33	31.70	31.80	31.90	32.00	32.10	32.20	32.30	32.40	32.50	32.60
34	32.70	32.80	32.90	33.00	33.10	33.20	33.30	33.40	33.50	33.60
35	33.70	33.80	33.90	34.00	34.10	34.20	34.30	34.40	34.50	34.60
36	34.70	34.80	34.90	35.00	35.10	35.20	35.30	35.40	35.50	35.60
37	35.70	35.80	35.90	36.00	36.10	36.20	36.30	36.40	36.50	36.60
38	36.70	36.80	36.90	37.00	37.10	37.20	37.30	37.40	37.50	37.60
39	37.70	37.80	37.90	38.00	38.10	38.20	38.30	38.40	38.50	38.60
40	38.70	38.80	38.90	39.00	39.10	39.20	39.30	39.40	39.50	39.60

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0			0.00	0.01	0.03	0.07	0.12	0.17	0.23	0.29
1	0.36	0.43	0.50	0.58	0.66	0.74	0.82	0.91	0.99	1.08
2	1.16	1.25	1.34	1.43	1.52	1.61	1.70	1.79	1.89	1.98
3	2.07	2.16	2.26	2.35	2.45	2.54	2.64	2.73	2.83	2.92
4	3.02	3.11	3.21	3.31	3.40	3.50	3.59	3.69	3.79	3.89
5	3.98	4.08	4.18	4.27	4.37	4.47	4.57	4.66	4.76	4.86
6	4.96	5.06	5.15	5.25	5.35	5.45	5.55	5.64	5.74	5.84
7	5.94	6.04	6.14	6.23	6.33	6.43	6.53	6.63	6.73	6.83
8	6.92	7.02	7.12	7.22	7.32	7.42	7.52	7.62	7.72	7.81
9	7.91	8.01	8.11	8.21	8.31	8.41	8.51	8.61	8.71	8.80
10	8.90	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80
11	9.90	10.00	10.09	10.19	10.29	10.39	10.49	10.59	10.69	10.79
12	10.89	10.99	11.09	11.19	11.29	11.39	11.49	11.59	11.69	11.78
13	11.88	11.98	12.08	12.18	12.28	12.38	12.48	12.58	12.68	12.78
14	12.88	12.98	13.08	13.18	13.28	13.38	13.48	13.58	13.68	13.78
15	13.88	13.97	14.07	14.17	14.27	14.37	14.47	14.57	14.67	14.77
16	14.87	14.97	15.07	15.17	15.27	15.37	15.47	15.57	15.67	15.77
17	15.87	15.97	16.07	16.17	16.27	16.37	16.47	16.57	16.67	16.77
18	16.87	16.96	17.06	17.16	17.26	17.36	17.46	17.56	17.66	17.76
19	17.86	17.96	18.06	18.16	18.26	18.36	18.46	18.56	18.66	18.76
20	18.86	18.96	19.06	19.16	19.26	19.36	19.46	19.56	19.66	19.76

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	19.86	19.96	20.06	20.16	20.26	20.36	20.46	20.56	20.66	20.76
22	20.86	20.96	21.06	21.16	21.26	21.36	21.45	21.55	21.65	21.75
23	21.85	21.95	22.05	22.15	22.25	22.35	22.45	22.55	22.65	22.75
24	22.85	22.95	23.05	23.15	23.25	23.35	23.45	23.55	23.65	23.75
25	23.85	23.95	24.05	24.15	24.25	24.35	24.45	24.55	24.65	24.75
26	24.85	24.95	25.05	25.15	25.25	25.35	25.45	25.55	25.65	25.75
27	25.85	25.95	26.05	26.15	26.25	26.35	26.45	26.55	26.65	26.75
28	26.85	26.95	27.05	27.15	27.25	27.35	27.45	27.55	27.65	27.75
29	27.85	27.95	28.05	28.15	28.25	28.35	28.45	28.55	28.65	28.75
30	28.84	28.94	29.04	29.14	29.24	29.34	29.44	29.54	29.64	29.74
31	29.84	29.94	30.04	30.14	30.24	30.34	30.44	30.54	30.64	30.74
32	30.84	30.94	31.04	31.14	31.24	31.34	31.44	31.54	31.64	31.74
33	31.84	31.94	32.04	32.14	32.24	32.34	32.44	32.54	32.64	32.74
34	32.84	32.94	33.04	33.14	33.24	33.34	33.44	33.54	33.64	33.74
35	33.84	33.94	34.04	34.14	34.24	34.34	34.44	34.54	34.64	34.74
36	34.84	34.94	35.04	35.14	35.24	35.34	35.44	35.54	35.64	35.74
37	35.84	35.94	36.04	36.14	36.24	36.34	36.44	36.54	36.64	36.74
38	36.84	36.94	37.04	37.14	37.24	37.34	37.44	37.54	37.64	37.74
39	37.84	37.94	38.04	38.14	38.24	38.34	38.44	38.54	38.64	38.74
40	38.84	38.94	39.04	39.14	39.24	39.34	39.44	39.54	39.64	39.74

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0			0.00	0.02	0.05	0.09	0.14	0.20	0.26	0.33
1	0.40	0.48	0.56	0.64	0.72	0.80	0.89	0.97	1.06	1.15
2	1.24	1.33	1.42	1.51	1.60	1.69	1.79	1.88	1.97	2.07
3	2.16	2.26	2.35	2.45	2.54	2.64	2.73	2.83	2.92	3.02
4	3.12	3.21	3.31	3.41	3.50	3.60	3.70	3.80	3.89	3.99
5	4.09	4.19	4.28	4.38	4.48	4.58	4.68	4.77	4.87	4.97
6	5.07	5.17	5.27	5.36	5.46	5.56	5.66	5.76	5.86	5.96
7	6.05	6.15	6.25	6.35	6.45	6.55	6.65	6.75	6.85	6.94
8	7.04	7.14	7.24	7.34	7.44	7.54	7.64	7.74	7.84	7.93
9	8.03	8.13	8.23	8.33	8.43	8.53	8.63	8.73	8.83	8.93
10	9.03	9.13	9.23	9.32	9.42	9.52	9.62	9.72	9.82	9.92
11	10.02	10.12	10.22	10.32	10.42	10.52	10.62	10.72	10.82	10.92
12	11.02	11.12	11.21	11.31	11.41	11.51	11.61	11.71	11.81	11.91
13	12.01	12.11	12.21	12.31	12.41	12.51	12.61	12.71	12.81	12.91
14	13.01	13.11	13.21	13.31	13.41	13.51	13.61	13.71	13.80	13.90
15	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90
16	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90
17	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90
18	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.79	17.89
19	17.99	18.09	18.19	18.29	18.39	18.49	18.59	18.69	18.79	18.89
20	18.99	19.09	19.19	19.29	19.39	19.49	19.59	19.69	19.79	19.89

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	19.99	20.09	20.19	20.29	20.39	20.49	20.59	20.69	20.79	20.89
22	20.99	21.09	21.19	21.29	21.39	21.49	21.59	21.69	21.79	21.89
23	21.99	22.09	22.19	22.29	22.39	22.49	22.59	22.69	22.79	22.89
24	22.99	23.09	23.19	23.29	23.39	23.49	23.59	23.69	23.79	23.89
25	23.99	24.09	24.19	24.29	24.38	24.48	24.58	24.68	24.78	24.88
26	24.98	25.08	25.18	25.28	25.38	25.48	25.58	25.68	25.78	25.88
27	25.98	26.08	26.18	26.28	26.38	26.48	26.58	26.68	26.78	26.88
28	26.98	27.08	27.18	27.28	27.38	27.48	27.58	27.68	27.78	27.88
29	27.98	28.08	28.18	28.28	28.38	28.48	28.58	28.68	28.78	28.88
30	28.98	29.08	29.18	29.28	29.38	29.48	29.58	29.68	29.78	29.88
31	29.98	30.08	30.18	30.28	30.38	30.48	30.58	30.68	30.78	30.88
32	30.98	31.08	31.18	31.28	31.38	31.48	31.58	31.68	31.78	31.88
33	31.98	32.08	32.18	32.28	32.38	32.48	32.58	32.68	32.78	32.88
34	32.98	33.08	33.18	33.28	33.38	33.48	33.58	33.68	33.78	33.88
35	33.98	34.08	34.18	34.28	34.38	34.48	34.58	34.68	34.78	34.88
36	34.98	35.08	35.18	35.28	35.38	35.48	35.58	35.68	35.78	35.88
37	35.98	36.08	36.18	36.28	36.38	36.48	36.58	36.68	36.78	36.88
38	36.98	37.08	37.18	37.28	37.38	37.48	37.58	37.68	37.78	37.88
39	37.98	38.07	38.17	38.27	38.37	38.47	38.57	38.67	38.77	38.87
40	38.97	39.07	39.17	39.27	39.37	39.47	39.57	39.67	39.77	39.87

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0			0.00	0.02	0.06	0.11	0.17	0.23	0.30	0.37
1	0.45	0.53	0.61	0.69	0.78	0.87	0.95	1.04	1.13	1.22
2	1.31	1.41	1.50	1.59	1.69	1.78	1.87	1.97	2.06	2.16
3	2.25	2.35	2.45	2.54	2.64	2.73	2.83	2.93	3.03	3.12
4	3.22	3.32	3.41	3.51	3.61	3.71	3.81	3.90	4.00	4.10
5	4.20	4.30	4.39	4.49	4.59	4.69	4.79	4.89	4.98	5.08
6	5.18	5.28	5.38	5.48	5.58	5.68	5.78	5.87	5.97	6.07
7	6.17	6.27	6.37	6.47	6.57	6.67	6.77	6.86	6.96	7.06
8	7.16	7.26	7.36	7.46	7.56	7.66	7.76	7.86	7.96	8.06
9	8.16	8.25	8.35	8.45	8.55	8.65	8.75	8.85	8.95	9.05
10	9.15	9.25	9.35	9.45	9.55	9.65	9.75	9.85	9.95	10.05
11	10.15	10.24	10.34	10.44	10.54	10.64	10.74	10.84	10.94	11.04
12	11.14	11.24	11.34	11.44	11.54	11.64	11.74	11.84	11.94	12.04
13	12.14	12.24	12.34	12.44	12.54	12.64	12.74	12.84	12.94	13.04
14	13.14	13.23	13.33	13.43	13.53	13.63	13.73	13.83	13.93	14.03
15	14.13	14.23	14.33	14.43	14.53	14.63	14.73	14.83	14.93	15.03
16	15.13	15.23	15.33	15.43	15.53	15.63	15.73	15.83	15.93	16.03
17	16.13	16.23	16.33	16.43	16.53	16.63	16.73	16.83	16.93	17.03
18	17.13	17.23	17.33	17.43	17.53	17.63	17.73	17.83	17.93	18.03
19	18.13	18.23	18.33	18.42	18.52	18.62	18.72	18.82	18.92	19.02
20	19.12	19.22	19.32	19.42	19.52	19.62	19.72	19.82	19.92	20.02

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	20.12	20.22	20.32	20.42	20.52	20.62	20.72	20.82	20.92	21.02
22	21.12	21.22	21.32	21.42	21.52	21.62	21.72	21.82	21.92	22.02
23	22.12	22.22	22.32	22.42	22.52	22.62	22.72	22.82	22.92	23.02
24	23.12	23.22	23.32	23.42	23.52	23.62	23.72	23.82	23.92	24.02
25	24.12	24.22	24.32	24.42	24.52	24.62	24.72	24.82	24.92	25.02
26	25.12	25.22	25.32	25.42	25.52	25.62	25.72	25.82	25.92	26.02
27	26.12	26.22	26.32	26.42	26.52	26.62	26.72	26.82	26.92	27.02
28	27.12	27.22	27.32	27.42	27.52	27.62	27.72	27.82	27.92	28.02
29	28.12	28.22	28.32	28.42	28.52	28.62	28.72	28.82	28.92	29.01
30	29.11	29.21	29.31	29.41	29.51	29.61	29.71	29.81	29.91	30.01
31	30.11	30.21	30.31	30.41	30.51	30.61	30.71	30.81	30.91	31.01
32	31.11	31.21	31.31	31.41	31.51	31.61	31.71	31.81	31.91	32.01
33	32.11	32.21	32.31	32.41	32.51	32.61	32.71	32.81	32.91	33.01
34	33.11	33.21	33.31	33.41	33.51	33.61	33.71	33.81	33.91	34.01
35	34.11	34.21	34.31	34.41	34.51	34.61	34.71	34.81	34.91	35.01
36	35.11	35.21	35.31	35.41	35.51	35.61	35.71	35.81	35.91	36.01
37	36.11	36.21	36.31	36.41	36.51	36.61	36.71	36.81	36.91	37.01
38	37.11	37.21	37.31	37.41	37.51	37.61	37.71	37.81	37.91	38.01
39	38.11	38.21	38.31	38.41	38.51	38.61	38.71	38.81	38.91	39.01
40	39.11	39.21	39.31	39.41	39.51	39.61	39.71	39.81	39.91	40.01

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0			0.01	0.04	0.08	0.14	0.20	0.27	0.35	0.42
1	0.50	0.59	0.67	0.76	0.85	0.94	1.03	1.12	1.21	1.30
2	1.40	1.49	1.58	1.68	1.77	1.87	1.97	2.06	2.16	2.25
3	2.35	2.45	2.54	2.64	2.74	2.84	2.93	3.03	3.13	3.23
4	3.32	3.42	3.52	3.62	3.72	3.82	3.91	4.01	4.11	4.21
5	4.31	4.41	4.51	4.60	4.70	4.80	4.90	5.00	5.10	5.20
6	5.30	5.40	5.50	5.59	5.69	5.79	5.89	5.99	6.09	6.19
7	6.29	6.39	6.49	6.59	6.69	6.79	6.88	6.98	7.08	7.18
8	7.28	7.38	7.48	7.58	7.68	7.78	7.88	7.98	8.08	8.18
9	8.28	8.38	8.48	8.58	8.68	8.78	8.87	8.97	9.07	9.17
10	9.27	9.37	9.47	9.57	9.67	9.77	9.87	9.97	10.07	10.17
11	10.27	10.37	10.47	10.57	10.67	10.77	10.87	10.97	11.07	11.17
12	11.27	11.37	11.47	11.57	11.67	11.77	11.87	11.97	12.06	12.16
13	12.26	12.36	12.46	12.56	12.66	12.76	12.86	12.96	13.06	13.16
14	13.26	13.36	13.46	13.56	13.66	13.76	13.86	13.96	14.06	14.16
15	14.26	14.36	14.46	14.56	14.66	14.76	14.86	14.96	15.06	15.16
16	15.26	15.36	15.46	15.56	15.66	15.76	15.86	15.96	16.06	16.16
17	16.26	16.36	16.46	16.56	16.66	16.76	16.86	16.96	17.06	17.16
18	17.26	17.36	17.46	17.56	17.66	17.76	17.86	17.96	18.06	18.16
19	18.26	18.36	18.46	18.55	18.65	18.75	18.85	18.95	19.05	19.15
20	19.25	19.35	19.45	19.55	19.65	19.75	19.85	19.95	20.05	20.15

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	20.25	20.35	20.45	20.55	20.65	20.75	20.85	20.95	21.05	21.15
22	21.25	21.35	21.45	21.55	21.65	21.75	21.85	21.95	22.05	22.15
23	22.25	22.35	22.45	22.55	22.65	22.75	22.85	22.95	23.05	23.15
24	23.25	23.35	23.45	23.55	23.65	23.75	23.85	23.95	24.05	24.15
25	24.25	24.35	24.45	24.55	24.65	24.75	24.85	24.95	25.05	25.15
26	25.25	25.35	25.45	25.55	25.65	25.75	25.85	25.95	26.05	26.15
27	26.25	26.35	26.45	26.55	26.65	26.75	26.85	26.95	27.05	27.15
28	27.25	27.35	27.45	27.55	27.65	27.75	27.85	27.95	28.05	28.15
29	28.25	28.35	28.45	28.55	28.65	28.75	28.85	28.95	29.05	29.15
30	29.25	29.35	29.45	29.55	29.65	29.75	29.85	29.95	30.05	30.15
31	30.25	30.35	30.45	30.55	30.65	30.75	30.85	30.95	31.05	31.15
32	31.25	31.35	31.45	31.55	31.65	31.75	31.85	31.95	32.05	32.15
33	32.25	32.35	32.45	32.55	32.65	32.75	32.85	32.95	33.05	33.15
34	33.25	33.35	33.45	33.55	33.65	33.75	33.85	33.95	34.05	34.15
35	34.25	34.35	34.45	34.55	34.65	34.75	34.85	34.95	35.05	35.15
36	35.25	35.35	35.45	35.55	35.65	35.75	35.85	35.95	36.05	36.15
37	36.25	36.35	36.45	36.55	36.65	36.75	36.85	36.95	37.04	37.14
38	37.24	37.34	37.44	37.54	37.64	37.74	37.84	37.94	38.04	38.14
39	38.24	38.34	38.44	38.54	38.64	38.74	38.84	38.94	39.04	39.14
40	39.24	39.34	39.44	39.54	39.64	39.74	39.84	39.94	40.04	40.14

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0			0.01	0.05	0.11	0.17	0.24	0.32	0.40	0.48
1	0.56	0.65	0.74	0.83	0.92	1.01	1.11	1.20	1.29	1.39
2	1.48	1.58	1.67	1.77	1.87	1.96	2.06	2.16	2.25	2.35
3	2.45	2.55	2.65	2.74	2.84	2.94	3.04	3.14	3.23	3.33
4	3.43	3.53	3.63	3.73	3.83	3.93	4.02	4.12	4.22	4.32
5	4.42	4.52	4.62	4.72	4.82	4.92	5.01	5.11	5.21	5.31
6	5.41	5.51	5.61	5.71	5.81	5.91	6.01	6.11	6.21	6.31
7	6.41	6.51	6.61	6.70	6.80	6.90	7.00	7.10	7.20	7.30
8	7.40	7.50	7.60	7.70	7.80	7.90	8.00	8.10	8.20	8.30
9	8.40	8.50	8.60	8.70	8.80	8.90	9.00	9.10	9.20	9.30
10	9.40	9.50	9.59	9.69	9.79	9.89	9.99	10.09	10.19	10.29
11	10.39	10.49	10.59	10.69	10.79	10.89	10.99	11.09	11.19	11.29
12	11.39	11.49	11.59	11.69	11.79	11.89	11.99	12.09	12.19	12.29
13	12.39	12.49	12.59	12.69	12.79	12.89	12.99	13.09	13.19	13.29
14	13.39	13.49	13.59	13.69	13.79	13.89	13.99	14.09	14.19	14.29
15	14.39	14.49	14.59	14.69	14.79	14.89	14.99	15.09	15.19	15.29
16	15.39	15.49	15.59	15.69	15.79	15.89	15.99	16.08	16.18	16.28
17	16.38	16.48	16.58	16.68	16.78	16.88	16.98	17.08	17.18	17.28
18	17.38	17.48	17.58	17.68	17.78	17.88	17.98	18.08	18.18	18.28
19	18.38	18.48	18.58	18.68	18.78	18.88	18.98	19.08	19.18	19.28
20	19.38	19.48	19.58	19.68	19.78	19.88	19.98	20.08	20.18	20.28

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	20.38	20.48	20.58	20.68	20.78	20.88	20.98	21.08	21.18	21.28
22	21.38	21.48	21.58	21.68	21.78	21.88	21.98	22.08	22.18	22.28
23	22.38	22.48	22.58	22.68	22.78	22.88	22.98	23.08	23.18	23.28
24	23.38	23.48	23.58	23.68	23.78	23.88	23.98	24.08	24.18	24.28
25	24.38	24.48	24.58	24.68	24.78	24.88	24.98	25.08	25.18	25.28
26	25.38	25.48	25.58	25.68	25.78	25.88	25.98	26.08	26.18	26.28
27	26.38	26.48	26.58	26.68	26.78	26.88	26.98	27.08	27.18	27.28
28	27.38	27.48	27.58	27.68	27.78	27.88	27.98	28.08	28.18	28.28
29	28.38	28.48	28.58	28.68	28.78	28.88	28.98	29.08	29.18	29.28
30	29.38	29.48	29.58	29.68	29.78	29.88	29.98	30.08	30.18	30.28
31	30.38	30.48	30.58	30.68	30.78	30.88	30.98	31.08	31.18	31.28
32	31.38	31.48	31.58	31.68	31.78	31.88	31.98	32.08	32.18	32.28
33	32.38	32.48	32.58	32.68	32.78	32.88	32.98	33.08	33.18	33.28
34	33.38	33.48	33.58	33.68	33.78	33.88	33.98	34.08	34.18	34.28
35	34.38	34.48	34.58	34.68	34.78	34.88	34.98	35.08	35.18	35.28
36	35.38	35.48	35.58	35.68	35.78	35.88	35.98	36.08	36.18	36.28
37	36.38	36.48	36.58	36.68	36.78	36.88	36.98	37.08	37.18	37.28
38	37.38	37.48	37.58	37.68	37.78	37.88	37.98	38.08	38.18	38.28
39	38.38	38.48	38.58	38.68	38.78	38.88	38.98	39.08	39.18	39.28
40	39.38	39.48	39.58	39.68	39.78	39.88	39.98	40.08	40.18	40.28

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0		0.00	0.03	0.07	0.14	0.21	0.29	0.37	0.45	0.54
1	0.63	0.72	0.81	0.91	1.00	1.09	1.19	1.29	1.38	1.48
2	1.57	1.67	1.77	1.87	1.96	2.06	2.16	2.26	2.36	2.45
3	2.55	2.65	2.75	2.85	2.95	3.04	3.14	3.24	3.34	3.44
4	3.54	3.64	3.74	3.84	3.94	4.04	4.13	4.23	4.33	4.43
5	4.53	4.63	4.73	4.83	4.93	5.03	5.13	5.23	5.33	5.43
6	5.53	5.63	5.73	5.83	5.93	6.03	6.12	6.22	6.32	6.42
7	6.52	6.62	6.72	6.82	6.92	7.02	7.12	7.22	7.32	7.42
8	7.52	7.62	7.72	7.82	7.92	8.02	8.12	8.22	8.32	8.42
9	8.52	8.62	8.72	8.82	8.92	9.02	9.12	9.22	9.32	9.42
10	9.52	9.62	9.72	9.82	9.92	10.02	10.12	10.22	10.32	10.42
11	10.51	10.61	10.71	10.81	10.91	11.01	11.11	11.21	11.31	11.41
12	11.51	11.61	11.71	11.81	11.91	12.01	12.11	12.21	12.31	12.41
13	12.51	12.61	12.71	12.81	12.91	13.01	13.11	13.21	13.31	13.41
14	13.51	13.61	13.71	13.81	13.91	14.01	14.11	14.21	14.31	14.41
15	14.51	14.61	14.71	14.81	14.91	15.01	15.11	15.21	15.31	15.41
16	15.51	15.61	15.71	15.81	15.91	16.01	16.11	16.21	16.31	16.41
17	16.51	16.61	16.71	16.81	16.91	17.01	17.11	17.21	17.31	17.41
18	17.51	17.61	17.71	17.81	17.91	18.01	18.11	18.21	18.31	18.41
19	18.51	18.61	18.71	18.81	18.91	19.01	19.11	19.21	19.31	19.41
20	19.51	19.61	19.71	19.81	19.91	20.01	20.11	20.21	20.31	20.41

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	20.51	20.61	20.71	20.81	20.91	21.01	21.11	21.21	21.31	21.41
22	21.51	21.61	21.71	21.81	21.91	22.01	22.11	22.21	22.31	22.41
23	22.51	22.61	22.71	22.81	22.91	23.01	23.11	23.21	23.31	23.41
24	23.51	23.61	23.71	23.81	23.91	24.01	24.11	24.21	24.31	24.41
25	24.51	24.61	24.71	24.81	24.91	25.01	25.11	25.21	25.31	25.41
26	25.51	25.61	25.71	25.81	25.91	26.01	26.11	26.21	26.31	26.41
27	26.51	26.61	26.71	26.81	26.91	27.01	27.11	27.21	27.31	27.41
28	27.51	27.61	27.71	27.81	27.91	28.01	28.11	28.21	28.31	28.41
29	28.51	28.61	28.71	28.81	28.91	29.01	29.11	29.21	29.31	29.41
30	29.51	29.61	29.71	29.81	29.91	30.01	30.11	30.21	30.31	30.41
31	30.51	30.61	30.71	30.81	30.91	31.01	31.11	31.21	31.30	31.40
32	31.50	31.60	31.70	31.80	31.90	32.00	32.10	32.20	32.30	32.40
33	32.50	32.60	32.70	32.80	32.90	33.00	33.10	33.20	33.30	33.40
34	33.50	33.60	33.70	33.80	33.90	34.00	34.10	34.20	34.30	34.40
35	34.50	34.60	34.70	34.80	34.90	35.00	35.10	35.20	35.30	35.40
36	35.50	35.60	35.70	35.80	35.90	36.00	36.10	36.20	36.30	36.40
37	36.50	36.60	36.70	36.80	36.90	37.00	37.10	37.20	37.30	37.40
38	37.50	37.60	37.70	37.80	37.90	38.00	38.10	38.20	38.30	38.40
39	38.50	38.60	38.70	38.80	38.90	39.00	39.10	39.20	39.30	39.40
40	39.50	39.60	39.70	39.80	39.90	40.00	40.10	40.20	40.30	40.40

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0		0.00	0.04	0.10	0.18	0.26	0.34	0.43	0.52	0.61
1	0.71	0.80	0.90	0.99	1.09	1.18	1.28	1.38	1.48	1.57
2	1.67	1.77	1.87	1.97	2.07	2.16	2.26	2.36	2.46	2.56
3	2.66	2.76	2.86	2.96	3.06	3.15	3.25	3.35	3.45	3.55
4	3.65	3.75	3.85	3.95	4.05	4.15	4.25	4.35	4.45	4.55
5	4.65	4.75	4.85	4.95	5.05	5.15	5.25	5.35	5.44	5.54
6	5.64	5.74	5.84	5.94	6.04	6.14	6.24	6.34	6.44	6.54
7	6.64	6.74	6.84	6.94	7.04	7.14	7.24	7.34	7.44	7.54
8	7.64	7.74	7.84	7.94	8.04	8.14	8.24	8.34	8.44	8.54
9	8.64	8.74	8.84	8.94	9.04	9.14	9.24	9.34	9.44	9.54
10	9.64	9.74	9.84	9.94	10.04	10.14	10.24	10.34	10.44	10.54
11	10.64	10.74	10.84	10.94	11.04	11.14	11.24	11.34	11.44	11.54
12	11.64	11.74	11.84	11.94	12.04	12.14	12.24	12.34	12.44	12.54
13	12.64	12.74	12.84	12.94	13.04	13.14	13.24	13.34	13.44	13.54
14	13.64	13.74	13.84	13.94	14.04	14.14	14.24	14.34	14.44	14.54
15	14.64	14.74	14.84	14.94	15.04	15.14	15.24	15.34	15.44	15.54
16	15.64	15.74	15.83	15.93	16.03	16.13	16.23	16.33	16.43	16.53
17	16.63	16.73	16.83	16.93	17.03	17.13	17.23	17.33	17.43	17.53
18	17.63	17.73	17.83	17.93	18.03	18.13	18.23	18.33	18.43	18.53
19	18.63	18.73	18.83	18.93	19.03	19.13	19.23	19.33	19.43	19.53
20	19.63	19.73	19.83	19.93	20.03	20.13	20.23	20.33	20.43	20.53

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY



## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	20.63	20.73	20.83	20.93	21.03	21.13	21.23	21.33	21.43	21.53
22	21.63	21.73	21.83	21.93	22.03	22.13	22.23	22.33	22.43	22.53
23	22.63	22.73	22.83	22.93	23.03	23.13	23.23	23.33	23.43	23.53
24	23.63	23.73	23.83	23.93	24.03	24.13	24.23	24.33	24.43	24.53
25	24.63	24.73	24.83	24.93	25.03	25.13	25.23	25.33	25.43	25.53
26	25.63	25.73	25.83	25.93	26.03	26.13	26.23	26.33	26.43	26.53
27	26.63	26.73	26.83	26.93	27.03	27.13	27.23	27.33	27.43	27.53
28	27.63	27.73	27.83	27.93	28.03	28.13	28.23	28.33	28.43	28.53
29	28.63	28.73	28.83	28.93	29.03	29.13	29.23	29.33	29.43	29.53
30	29.63	29.73	29.83	29.93	30.03	30.13	30.23	30.33	30.43	30.53
31	30.63	30.73	30.83	30.93	31.03	31.13	31.23	31.33	31.43	31.53
32	31.63	31.73	31.83	31.93	32.03	32.13	32.23	32.33	32.43	32.53
33	32.63	32.73	32.83	32.93	33.03	33.13	33.23	33.33	33.43	33.53
34	33.63	33.73	33.83	33.93	34.03	34.13	34.23	34.33	34.43	34.53
35	34.63	34.73	34.83	34.93	35.03	35.13	35.23	35.33	35.43	35.53
36	35.63	35.73	35.83	35.93	36.03	36.13	36.23	36.33	36.43	36.53
37	36.63	36.73	36.83	36.93	37.03	37.13	37.23	37.33	37.43	37.53
38	37.63	37.73	37.83	37.93	38.03	38.13	38.23	38.33	38.43	38.53
39	38.63	38.73	38.83	38.93	39.03	39.13	39.23	39.33	39.43	39.53
40	39.63	39.73	39.83	39.93	40.03	40.13	40.23	40.33	40.43	40.53

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0		0.01	0.07	0.15	0.23	0.32	0.41	0.50	0.60	0.69
1	0.79	0.89	0.99	1.08	1.18	1.28	1.38	1.48	1.58	1.68
2	1.77	1.87	1.97	2.07	2.17	2.27	2.37	2.47	2.57	2.67
3	2.77	2.87	2.97	3.07	3.17	3.27	3.37	3.47	3.57	3.67
4	3.77	3.86	3.96	4.06	4.16	4.26	4.36	4.46	4.56	4.66
5	4.76	4.86	4.96	5.06	5.16	5.26	5.36	5.46	5.56	5.66
6	5.76	5.86	5.96	6.06	6.16	6.26	6.36	6.46	6.56	6.66
7	6.76	6.86	6.96	7.06	7.16	7.26	7.36	7.46	7.56	7.66
8	7.76	7.86	7.96	8.06	8.16	8.26	8.36	8.46	8.56	8.66
9	8.76	8.86	8.96	9.06	9.16	9.26	9.36	9.46	9.56	9.66
10	9.76	9.86	9.96	10.06	10.16	10.26	10.36	10.46	10.56	10.66
11	10.76	10.86	10.96	11.06	11.16	11.26	11.36	11.46	11.56	11.66
12	11.76	11.86	11.96	12.06	12.16	12.26	12.36	12.46	12.56	12.66
13	12.76	12.86	12.96	13.06	13.16	13.26	13.36	13.46	13.56	13.66
14	13.76	13.86	13.96	14.06	14.16	14.26	14.36	14.46	14.56	14.66
15	14.76	14.86	14.96	15.06	15.16	15.26	15.36	15.46	15.56	15.66
16	15.76	15.86	15.96	16.06	16.16	16.26	16.36	16.46	16.56	16.66
17	16.76	16.86	16.96	17.06	17.16	17.26	17.36	17.46	17.56	17.66
18	17.76	17.86	17.96	18.06	18.16	18.26	18.36	18.46	18.56	18.66
19	18.76	18.86	18.96	19.06	19.16	19.26	19.36	19.46	19.56	19.66
20	19.76	19.86	19.96	20.06	20.16	20.26	20.36	20.46	20.56	20.66

NOTE: Runoff value determined by equation  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

## RUNOFF FOR INCHES OF RAINFALL

Tenths Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
21	20.76	20.86	20.96	21.06	21.16	21.26	21.36	21.46	21.56	21.66
22	21.76	21.86	21.96	22.06	22.16	22.26	22.36	22.46	22.56	22.66
23	22.76	22.86	22.96	23.06	23.16	23.26	23.36	23.46	23.56	23.66
24	23.76	23.86	23.96	24.06	24.16	24.26	24.36	24.46	24.56	24.66
25	24.76	24.86	24.96	25.06	25.16	25.26	25.36	25.46	25.56	25.66
26	25.76	25.86	25.96	26.06	26.16	26.26	26.36	26.46	26.56	26.66
27	26.76	26.86	26.96	27.06	27.16	27.26	27.36	27.46	27.56	27.66
28	27.76	27.86	27.96	28.06	28.16	28.26	28.36	28.46	28.56	28.66
29	28.76	28.86	28.96	29.06	29.16	29.26	29.36	29.46	29.56	29.66
30	29.76	29.86	29.96	30.06	30.16	30.26	30.36	30.46	30.56	30.66
31	30.76	30.86	30.96	31.06	31.16	31.26	31.36	31.46	31.56	31.66
32	31.76	31.86	31.96	32.06	32.16	32.26	32.36	32.46	32.56	32.66
33	32.76	32.86	32.96	33.06	33.16	33.26	33.36	33.46	33.56	33.66
34	33.76	33.86	33.96	34.06	34.16	34.26	34.36	34.46	34.56	34.66
35	34.76	34.86	34.96	35.06	35.16	35.26	35.36	35.46	35.56	35.66
36	35.76	35.86	35.96	36.06	36.16	36.26	36.36	36.46	36.56	36.66
37	36.76	36.86	36.96	37.06	37.16	37.26	37.36	37.46	37.56	37.66
38	37.76	37.86	37.96	38.06	38.16	38.26	38.36	38.46	38.56	38.66
39	38.76	38.86	38.96	39.06	39.16	39.26	39.36	39.46	39.56	39.66
40	39.76	39.86	39.96	40.06	40.16	40.26	40.36	40.46	40.56	40.66

NOTE: Runoff value determined by equation  $Q = \frac{(P - 0.2 S)^2}{P + 0.8 S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY